

1927 LAKESIDE PARKWAY SUITE 614 TUCKER, GEORGIA 30084 404-938-7710

C-586-3-7-106

March 31, 1987

Mr. Richard D. Green Emergency and Remedial Response Branch Waste Management Division Environmental Protection Agency 345 Courtland Street, N. E. Atlanta, Georgia 30365

Subject:

G10 __100

31 . _10072

Well Inventory and HRS Scoring of Selected Sites

General Refining Company, TDD #: F4-8703-11 Georgia Pacific Corporation, TDD #: F4-8703-12

Union Camp Company, TDD #: F4-8703-13

Dear Mr. Green:

On March 17, 18, and 19, 1987, two members of NUS Corporation FIT Region IV conducted a well inventory of an area in western Chatham County, Georgia. Tom Sherrod and Greg Schank inventoried those residences within a 3-mile radius of the General Refining Company Site, the Georgia-Pacific Corporation Site, and the Union Camp Company Site, for the purpose of determining the number of private shallow wells (less than 150 ft.) in use, and population served from these wells. This information was used to assist in the HRS scoring of these sites.

Site locations of the General Refining Company, Georgia-Pacific Corporation, and Union Camp Company (labeled A, B, and C, respectively) are shown on Figure 1. Also shown are the areas within a 3-mile radius of each site.

A total of five (5) shallow wells serving nine (9) homes was confirmed by this survey. In each instance, the well owner or a resident was present to supply information about the shallow well. Locations of these wells are shown on Figure 2, and available information is given on the attached well inventory forms. Each owner was also asked if any other shallow wells were in use in the vicinity. The number of unconfirmed shallow wells totalled five (5) from this information, with these wells serving eight (8) additional houses.

As seen in Figure 1, the areas surrounding each site are predominantly within municipal districts, and thus have access to city water supplies. Figure 2 shows the extent of municipal water lines (crosshatched area) as best determined from the survey. No distinction is made between the water facilities operated by Savannah, Garden City, or Port Wentworth. Savannah Municipal Airport (Travis Field) and the surrounding area are also known to have access to a municipal supply. Those portions of the 3-mile radii that are not shown on the eastern side of the map all lie within the city of Savannah, and are on city water.

Mr. Richard Green Environmental Protection Agency March 31, 1987 - Page 2

A large portion of the survey area is occupied by commercial and industrial sites. Industry is especially prevalent along the Savannah River front, and these sites are presumed to have deep wells. The majority of private residences polled also had deep wells, or received their water from a nearby deep well. Telephone interviews with local well drillers (see attached telecon notes) also confirms the scarcity of shallow wells in the area.

Also included in this report are the Hazard Ranking System (HRS) scores generated using this new information. In no instance does the composite migration score closely approach the threshold value of 28.5. The small number of shallow wells tapping the aquifer of concern severely limits the target population served in the area. Given the available data, these three sites do not qualify as candidates for the National Priorities List.

Please contact me here at NUS if you have any questions concerning the results of this survey.

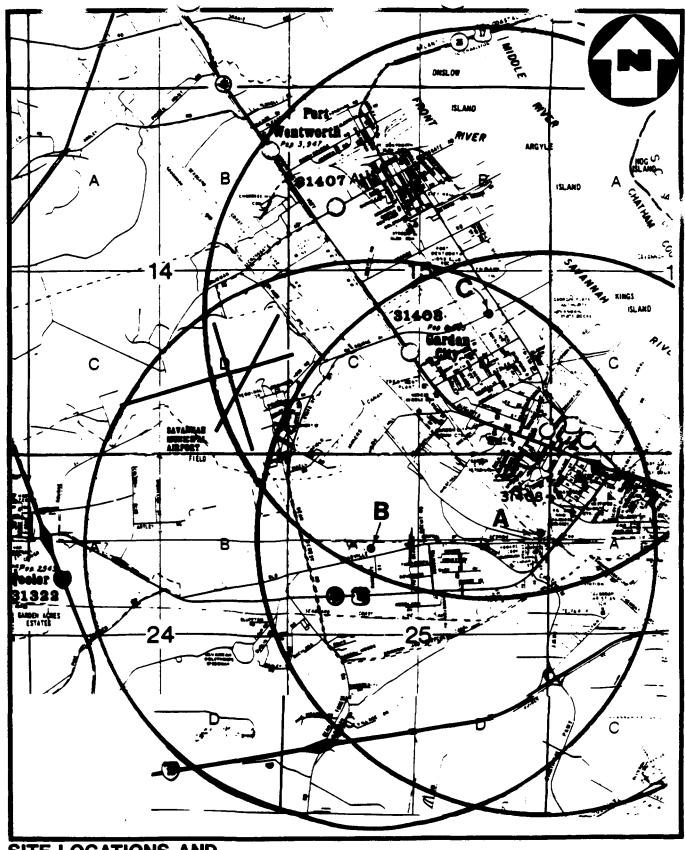
Very truly yours,

Tom Sherrod

TS/eaw

cc: Ray Wilkerson

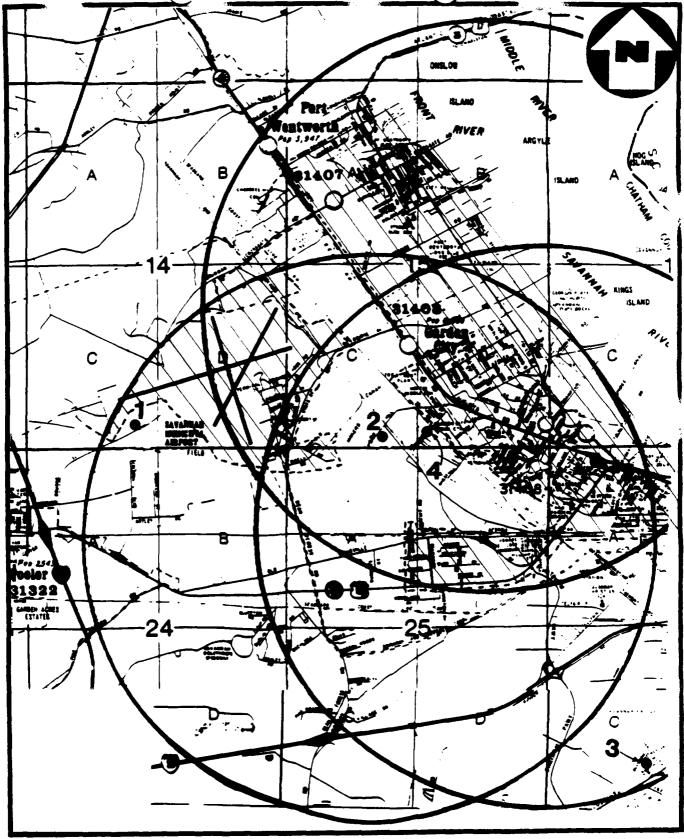
Attachments: (13)



SITE LOCATIONS AND 3 - MILE RADII FOR CHATHAM COUNTY WELL INVENTORY

FIGURE





SHALLOW WELLS AND MUNICIPAL WATER LINES WITHIN STUDY AREA

FIGURE 2







Telephone	
A	
Approximate Location of Well	Southern and the same of the s
Date Well Drilled	_ Driller or Installer Diameter
Depth of Well ~ 100 ft Screened Interval	Casing Type Diameter
	Pump Setting or Yield Surface
	Number of Users 2 houses
Any Tests Performed on Well	
Any Problems Noted by Well Ov	VIDER NONE
Approximate Distance to Site Approximate Elevation	· · · · · · · · · · · · · · · · · · ·
Approximate Distance to Site Approximate Elevation Estimated Static Water Level	Below Land Surface
Approximate Distance to Site Approximate Elevation Estimated Static Water Level Soil Type	Below Land Surface
Approximate Distance to Site Approximate Elevation Estimated Static Water Level Soil Type Zone of Influence	Below Land Surface



Telephone	
Approximate Location of Well	
Date Well Drilled	Driller or Installer
Depth of Well ~75 ft	Casing Type Diameter
Screened Interval	
Type of Pump	Pump Setting or Yield Sureface
Well Use Domestic	Number of Users 2 house
Any Tests Performed on Well	
Any Problems Noted by Well Ov	vner
	· · · · · · · · · · · · · · · · · · ·
Owner suggester	I that two neighboring how
الماء ممم	low wells (325 1316 HILL 100
were on same	ent lamp to confirm.
These owners	101 40
These owners a	
These owners approximate Distance to Site	
These owners	Below Land Surface
These owners of Approximate Distance to Site Approximate Elevation Estimated Static Water Level	Below Land Surface
Approximate Distance to Site Approximate Elevation	Below Land Surface





Name & Address of Resident	
Telephone	
Approximate Location of Well	
Date Well Drilled	Druler or installer
Depth of Well ~ 125 ft Screened Interval	Casing Type Diameter
	Pump Setting or Yield Suchace
Well Use DOMESTIC	
Any Tests Performed on Well	
Any Problems Noted by Well Ox	vner
•	
Appreximate Distance to Site	
Approximate Elevation	
Approximate Elevation Estimated Static Water Level	Below Land Surface
Approximate Elevation Estimated Static Water Level Soil Type	Below Land Surface
Approximate Distance to Site Approximate Elevation Estimated Static Water Level Soil Type Zone of Influence	Below Land Surface
Approximate Elevation Estimated Static Water Level Soil Type	Below Land Surface



Telephone		
Approximate Location of Well		
Date Well Drilled	Orniler or Installer	
Depth of Well ~60-65 ft	Casing Type Dia	meter _
Screened Interval		
	Pump Setting or YieldSur	
Well Use DOMESTIC	Number of Users 2	House
Any Tests Performed on Well _		
Any Problems Noted by Well Ox	HARD WATER	
	nu	NEAD
(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	BY OTHER SHALLOW WELLS	VC-12 :
DIR DRI EDUC OF A		
DIR DOL EDGE OF Y		
Approximate Distance to Site		
Approximate Distance to Site Approximate Elevation		nd Surface
Approximate Distance to Site Approximate Elevation Estimated Static Water Level	Selow La	nd Surface
Approximate Distance to Site Approximate Elevation Estimated Static Water Level Soil Type	Selow La	

#4



Telephone	-	
Approximate Location of Well		
Date Well Drilled	Oruler or Installer	
Depth of Well ~ 50 ft	Casing Type	Diameter
Screened Interval		
Type of Pump	_	
Well Use DOMESTIC	Number of Use	18 2 Houses
Any Tests Performed on Well	<u> </u>	
Any Problems Noted by Well Ov	vner	
	ez more neigh	boning house
Owner suggested 2 o were on shallow wells	. THESE WERE NO	- COMPIRMEU.
were on shallow wells	. THESE WERE NO	- compleneo.
Approximate Distance to Site	. THESE WERE NO	- complete.
Approximate Distance to Site	. THESE WERE NO	
Approximate Distance to Site Approximate Elevation Estimated Static Water Level	. THESE WERE NO	elow Land Surface
Approximate Distance to Site	. THESE WERE NO	elow Land Surface

NUS CORPORATION AND SUBSIDIARIES		TELECON NOTE	
CONTROL NO:	DATE: 3-17-8	37	TIME:
DISTRIBUTION:			
Files			
BETWEEN:	· · · · · · · · · · · · · · · · · · ·	OF: servic	14
Mr. Paul Clawson AND: Greg Shank はら		Paul Clawson Drilling	(912) 897-1806
DISCUSSION: Mr. Clawson said that h	ne has been in	stalling well for 17 y	vears and had installed
a few shallow wells. He	said there m	aybe 4 or 5 along Old	Louisville Rd, but
overall there were very	y few in our a	rea of concern. The we	ellsalong Old Louiseville
Rd. were the only ones	he could reca	11.	
	······································		<u> </u>
			
ACTION ITEMS:			
			
**************************************			 _
		······································	

NUS 061

IUS CORPORATION AND SUBSIDIARIES		TELECON NOTE		
CONTROL NO:	DATE:		TIM	E :
	3-17-8	37		
DISTRIBUTION:			<u> </u>	
Files				
BETWEEN:		OF:		PHONE:
Mr. Whitaker		Coastal Well Servic	е	(912) 232-5655
AND: Greg Schank				
Greg Schank				
DISCUSSION:				
Asked about shallow	wells in Garden	City area. Mr. Whita	ker	said he knew of no
shallow wells in tha	t area, and tha	t he did not install	sha 1	low wells. He told
me that the state di	d not allow sha	llow wells to be inst	alle	d for drinking water
purposes.				
pur poses.				
	· · · · · · · · · · · · · · · · · · ·			
•				
ACTION ITEMS:				
•				
	<u>.</u>			
-				

DATE: CONTROL NO: TIME: 3-17-87 DISTRIBUTION: Files BETWEEN: PHONE: (912) 748-0285 Turner Well Drilling Mr.Turner AND: Greg Schank 15 DISCUSSION: Mr. Turner said he knew of no shallow wells in the area around Garden City used for drinking water. He said that shallow wells were used for lawn and garden watering. He did not install shallow wells. **ACTION ITEMS:**

TELECON NOTE

NUS CORPORATION AND SUBSIDIARIES

HAZARD RANKING SYSTEM SCORING SUMMARY

FOR

GEORGIA PACIFIC CORP SAVANNAH 4
EPA SITE NUMBER GAD990741332
SAVANNAH
CHATHAM COUNTY, GA
EPA REGION: 4

SCORE STATUS: IN PREPARATION

SCORED BY T. SHERROD OF NUS CORPORATION ON 03/31/87

DATE OF THIS REPORT: 03/31/87
DATE OF LAST MODIFICATION: 03/31/87

GROUND WATER ROUTE SCORE: 30.69
SURFACE WATER ROUTE SCORE: 8.58
AIR ROUTE SCORE: 0.00

MIGRATION SCORE : 18.42

SITE: GEORGIA PACIFIC CORP SAVANNAH 4

HRS GROUND WATER ROUTE SCORE

	CATEGORY/FACTOR	RAW DATA	ASN.	VALUE	SCORE
1.	OBSERVED RELEASE	YES	# - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 1	45	45
2.	ROUTE CHARACTERISTICS	Mingagalara e nginish mengelebaja melbukan penaja na planesa laguni	***************************************	(2014-1	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
	DEPTH TO WATER TABLE DEPTH TO BOTTOM OF WASTE				
	DEPTH TO AQUIFER OF CONCERN				
	PRECIFITATION EVAPORATION				
	NET FRECIPITATION				
	PERMEABILITY				
	PHYSICAL STATE				
	TOTAL ROUTE CHARACTERISTICS SO	OORE:			N/A
З.	CONTAINMENT	Managari M	** <u> </u>		N/A
4.	WASTE CHARACTERISTICS		N. 200 - 100 - 147 - 100 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 -	1000 (april 1000 april 1000 (april 1000 april	
	TOXICITY/PERSISTENCE:ARSENIC				18
	WASTE QUANTITY CUBIC YDS DRUMS GALLONS TONS	312 0 0			
	TOTAL	312 CU.	YDS	5	5
	TOTAL WASTE CHARACTERISTICS SO	CORE:			23
5.	TARGETS				
	GROUND WATER USE			3	9
	DISTANCE TO NEAREST WELL AND TOTAL POPULATION SERVED NUMBER OF HOUSES NUMBER OF PERSONS NUMBER OF CONNECTIONS NUMBER OF IRRIGATED ACRES	5000 FEET MATRIX VALUE 19 PERS 5 0 0		8	8
	TOTAL TARGETS SCORE:				17

SITE: GEORGIA PACIFIC CORP SAVANNAH 4

HRS SURFACE WATER ROUTE SCORE

	CATEGORY/FACTOR	RAW DATA	ASN. VALUE	SCORE
1.	OBSERVED RELEASE	NO	O	()
2.	ROUTE CHARACTERISTICS			***************************************
	SITE LOCATED IN SURFACE WATER SITE WITHIN CLOSED BASIN FACILITY SLOPE INTERVENING SLOPE	NO NO 0.9 % 1.0 %	0	0
	24-HOUR RAINFALL	3.8 INCHE	ES 3	3
	DISTANCE TO DOWN-SLOPE WATER	3000 FEET	2	4
	PHYSICAL STATE	3		3
	TOTAL ROUTE CHARACTERISTICS SC	ORE:		10
З.	CONTAINMENT	3	ide n _{a min} atria distrib ili permendatan distribili di trabin di di trabin di distribili di mendendengan	3
4.	WASTE CHARACTERISTICS			
	TOXICITY/PERSISTENCE:ARSENIC			18
	WASTE QUANTITY CUBIC YDS DRUMS GALLONS TONS	312 0 0 0		
	TOTAL	312 CU. Y	DS 5	5
	TOTAL WASTE CHARACTERISTICS SCO	DRE:		23
5.	TARGETS			NO 3 CONTRACTOR DATE OF THE SUPERIOR SALE AND STORES
	SURFACE WATER USE		2	6
	DISTANCE TO SENSITIVE ENVIRONME COASTAL WETLANDS FRESH-WATER WETLANDS CRITICAL HABITAT	ENTS NONE 2500 FEET NONE	1	2
	DISTANCE TO STATIC WATER DISTANCE TO WATER SUPPLY INTAKE AND TOTAL POPULATION SERVED NUMBER OF HOUSES NUMBER OF PERSONS NUMBER OF CONNECTIONS NUMBER OF IRRIGATED ACRES	· · · · · · · · · · · · · · · · · · ·		0
	TOTAL TARGETS SCORE:			8
	SURFACE WATER ROUTE		_ O FO	

HRS AIR ROUTE SCORE

CATEGORY/FACTOR RAW DATA ASN. VALUE SCORE

1. OBSERVED RELEASE NO O O

2. WASTE CHARACTERISTICS

REACTIVITY:

MATRIX VALUE

INCOMPATIBILITY

TOXICITY

WASTE QUANTITY CUBIC YARDS

DRUMS GALLONS TONS

TOTAL

TOTAL WASTE CHARACTERISTICS SCORE:

N/A

3. TARGETS

POPULATION WITHIN 4-MILE RADIUS

- 0 to 0.25 mile
- 0 to 0.50 mile
- 0 to 1.0 mile
- O to 4.0 miles

DISTANCE TO SENSITIVE ENVIRONMENTS COASTAL WETLANDS FRESH-WATER WETLANDS

CRITICAL HABITAT

DISTANCE TO LAND USES
COMMERCIAL/INDUSTRIAL
PARK/FOREST/RESIDENTIAL
AGRICULTURAL LAND
PRIME FARMLAND
HISTORIC SITE WITHIN VIEW?

TOTAL TARGETS SCORE:

N/A

PAGE 5

HAZARD RANKING SYSTEM SCORING CALCULATIONS FOR SITE: GEORGIA PACIFIC CORP SAVANNAH 4

AS OF 03/31/87

GROUND WATER ROUTE SCORE

OBSERVED RELEASE 45 WASTE CHARACTERISTICS X 23 TARGETS X 17

 $= 17595 / 57,330 \times 100 = 30.69 = 5_{qw}$

SURFACE WATER ROUTE SCORE

ROUTE CHARACTERISTICS 10 Х З CONTAINMENT WASTE CHARACTERISTICS X 23 TARGETS X 8

= 5520 /64,350 X 100 = 8.58 = S_{••}

AIR ROUTE SCORE

 $0/35,100 \times 100 = 0.00 = S_{air}$ OBSERVED RELEASE

SUMMARY OF MIGRATION SCORE CALCULATIONS

	S	Se
GROUND WATER ROUTE SCORE (Saw)	30.69	941.88
SURFACE WATER ROUTE SCORE (S_w)	8.58	73.62
AIR ROUTE SCORE (Sair)	0.00	0.00
Segu + Segu + Segir		1015.50
√ (Segw + Segw + Segate)		31.87
$S_{M} = \sqrt{(S_{QW}^{2} + S_{QW}^{2} + S_{Mir}^{2})/1.73}$		18.42



TOS is Condenting
well survey for the
site our year

C-586-11-6-54

December 2, 1986

Mr. Richard D. Green
Emergency and Remedial Response Branch
Waste Management Division
Environmental Protection Agency
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Subject:

Preliminary HRS Scores

Georgia Pacific Corporation Savannah Site

(GAD990741332) Savannah, Georgia TDD No. F4-8611-32

Dear Mr. Green:

FIT IV was tasked to compute a preliminary HRS score for the Georgia Pacific Corporation Site in Savannah, Georgia. Since 1946 this site has been used for the manufacture of hardwood and pine plywood, and prefinished wall paneling. The facility was first owned by the General Plywood Company, but was purchased by the Georgia Pacific Corporation in 1949 and is still owned and operated by them. In the early 1960's until the mid 1970's, Georgia Pacific operated a resin plant at the facility. A site inspection report prepared by the Georgia Environmental Protection Division (GA-EPD) stated that from 1959 until 1965 an estimated two to four drums per week of liquid/sludge waste solvents, paints, mineral spirits, etc. were generated at the facility. These wastes were poured onto the ground in two onsite disposal areas covering approximately three acres each. The GA-EPD estimated a waste quantity of 312 cubic yards from this information.

Samples collected by the GA-EPD in 1985 from the disposal areas indicated that the shallow groundwater contained elevated concentrations of arsenic, barium, chromium and lead. Samples of the surface soils also contained elevated concentrations of these metals, as well as toluene and methyl isobutyl ketone.

Within the study area, there are three aquifers: the surficial aquifer which extends from the land surface to approximately 55 feet below land surface (bls); the Miocene aquifer system which extends from approximately 55 feet bls to 229 feet bls; and the Floridan aquifer or principal artesian aquifer system which extends from approximately 212 feet bls to 882 feet bls. Only two of these aquifers were considered as the aquifer of concern in these scenarios. The middle aquifer is not used for water supplies. The surficial aquifer is thought to be utilized by approximately 50 residences within a three mile radius of the site. The distance to the nearest shallow well is not known. The deeper Floridan aquifer is used to supply the Garden City Water System. This system utilizes four deep production

Mr. Richard D. Green Environmental Protection Agency December 2, 1986 - Page 2

wells located within a three mile radius of the site and services approximately 7,000 people. Based on a house count from 7.5 min. USGS topographic maps, an additional 11,000 people reside within three miles of the site. It can be assumed that these residents also receive their drinking water supplies (either public or private) from the deep aquifer and thus, a total of approximately 18,000 people drink from the deep aquifer. The Georgia Pacific Savannah Plant has two deep wells onsite which are utilized for drinking. Therefore, the distance from the site to the nearest deep well is less than 2,000 feet.

The nearest body of surface water is the Pipe Maker's Canal, located approximately 3,000 feet downslope from the site. This canal is not used for drinking supplies, but is used for fishing downstream of the site. This canal flows through a freshwater wetland greater than five acres in size and approximately .5 miles northwest of the site. Based on this information, and the assumption that an observed release can not be documented, a surface water route score of 8.58 was obtained.

Three scenarios were evaluated based on the above surface water score and three different groundwater scores. The first scenario assumes the deep Floridan aquifer is the aquifer of concern. It is assumed that documentation of an observed release to this aquifer is unlikely and therefore, route characteristics are evaluated. The second and third scenarios are based on file data which document an observed release to the shallow aquifer. Since the distance to the nearest well drawing from this shallow aquifer is unknown at this time, the second scenario assumes a distance of less than 2,000 feet and the third scenario assumes this distance to be between 2,001 feet and one mile. These three scenarios and their respective scores are summarized below.

- Version 1: Route Characteristics of Deep aquifer
 Distance to nearest well is less than 2,000 feet
 Route Characteristics of surface water
 Total Migration Score: 17.75.
- Version 2: Observed Release to Shallow aquifer
 Assume: Distance to nearest well is less than 2,000 feet
 Route Characteristics of surface water
 Total Migration Score: 30.66.
- Version 3: Observed Release to Shallow aquifer
 Assume: Distanc to nearest well is between 2,001 feet and one mile
 Route Characteristics of surface water
 Total Migration Score: 26.55.

Mr. Richard D. Green Environmental Protection Agency December 2, 1986 - Page 3

Based upon review of the file material provided to FIT IV, only one plausible scenario (Version 2) results in a score above 28.5. This score is attainable if a shallow drinking water well can be located within 2,000 feet of the site and if at least 27 shallow wells (greater than 100 people) can be identified within a three mile radius. Computer printouts of the score sheets for each of the three scenarios presented are enclosed.

An additional potential hazard exists at this site via the direct contact mode. The site is only partially surrounded by a fence and a guard is only present during the day. A population of approximately 2, 075 people reside within one mile of the site and a wetland and possible critical habitat area lie within .5 miles of the site. Based on these facts, a direct contact score of 62.50 is obtained.

If you have any questions regarding this preliminary HRS evaluation, please feel free to contact me at NUS Corporation.

Very truly yours,

Belinda Brock

Project Manager

BB/ls

Enclosures

cc: Camilla Warren

Richard Ferrazzuolo, (w/o encl)

Per Janni For Belinda Brock

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HAZARD RANKING SYSTEM SCORING SUMMARY

FOR

GEORGIA PACIFIC CORP SAVANNAH 1
EPA SITE NUMBER GAD990741332
SAVANNAH
CHATHAM COUNTY, GA
EPA REGION: 4

SCORE STATUS: IN PREPARATION

SCORED BY BELINDA BROCK OF NUS CORPORATION ON 11/06/86

DATE OF THIS REPORT: 11/19/86
DATE OF LAST MODIFICATION: 11/19/86

GROUND WATER ROUTE SCORE : 29.49
SURFACE WATER ROUTE SCORE: 8.58
AIR ROUTE SCORE : 0.00
MIGRATION SCORE : 17.75

HRS GROUND WATER ROUTE SCORE

	CATEGORY/FACTOR	RAW DATA	ASN. VALUE	SCORE
1.	OBSERVED RELEASE	NO	0	0
2 .	ROUTE CHARACTERISTICS			
	DEPTH TO WATER TABLE DEPTH TO BOTTOM OF WASTE	212 FEET O FEET		
	DEPTH TO AQUIFER OF CONCERN	212 FEET	o	0
	PRECIPITATION EVAPORATION	48.0 INCH 45.0 INCH		
	NET PRECIPITATION	3.0 INCH	ES 1	1
	PERMEABILITY	1.0X10-6 CM/S	EC 1	1
	PHYSICAL STATE		3	3
	TOTAL ROUTE CHARACTERISTICS SC	CORE:		5
3.	CONTAINMENT		3	3
4 .	WASTE CHARACTERISTICS			
	TOXICITY/PERSISTENCE: ARSENIC			18
	WASTE OUANTITY CUBIC YDS DRUMS GALLONS TONS	312 0 0		
	TOTAL	312 CU.	YDS 5	5
	TOTAL WASTE CHARACTERISTICS SC	CORE		23
5	TARGETS			
	GROUND WATER USE		3	9
	DISTANCE TO NEAREST WELL AND TOTAL POPULATION SERVED NUMBER OF HOUSES NUMBER OF PERSONS NUMBER OF CONNECTIONS	1000 FEET MATRIX VALUE 18540 PERSO 0 18540	40 DNS	40
	NUMBER OF TRREGATED ACRES TOTAL TARGETS SCORE:	0		49

HRS SURFACE WATER ROUTE SCORE

	CATEGORY/FACTOR	RAW DAT	A AS	N. VALUE	SCORE
1.	OBSERVED RELEASE	NO	-	0	0
2 .	ROUTE CHARACTERISTICS				
	SITE LOCATED IN SURFACE WATER SITE WITHIN CLOSED BASIN FACILITY SLOPE INTERVENING SLOPE	NO NO 0.9 1.0		0	0
	24-HOUR RAINFALL	3 . 8	INCHES	3	3
	DISTANCE TO DOWN-SLOPE WATER	3000	FEET	2	4
	PHYSICAL STATE		3		3
	TOTAL ROUTE CHARACTERISTICS SC	CORE			10
3.	CONTAINMENT		3		3
4 .	WASTE CHARACTERISTICS				·
	TOXICITY/PERSISTENCE: ARSENIC				18
	WASTE QUANTITY CUBIC YDS DRUMS GALLONS TONS	312 0 0 0			
	TOTAL	312	CU. YDS	5	5
	TOTAL WASTE CHARACTERISTICS SC	CORE:			23
5	TARGETS				·····
	SURFACE WATER USE			2	5
	DISTANCE TO SENSITIVE ENVIRONM COASTAL WETLANDS FRESH-WATER WETLANDS CRITICAL HABITAT	NONE	FEET	1	2
	DISTANCE TO STATIC WATER DISTANCE TO WATER SUPPLY INTAKAND TOTAL POPULATION SERVED NUMBER OF HOUSES NUMBER OF PERSONS NUMBER OF CONNECTIONS NUMBER OF IRRIGATED ACRES			٥	o
	TOTAL TARGETS SCORE:				8

HRS AIR ROUTE SCORE

CATEGORY/FACTOR RAW DATA ASN. VALUE SCORE

1 OBSERVED RELEASE NO 0 0

2. WASTE CHARACTERISTICS

REACTIVITY:

MATRIX VALUE

INCOMPATIBILITY

TOXICITY

WASTE QUANTITY CUBIC YARDS

DRUMS GALLONS TONS

TOTAL

TOTAL WASTE CHARACTERISTICS SCORE:

N/A

3. TARGETS

POPULATION WITHIN 4-MILE RADIUS

0 to 0.25 mile

0 to 0.50 mile

0 to 1.0 mile

O to 4.0 miles

DISTANCE TO SENSITIVE ENVIRONMENTS

COASTAL WETLANDS FRESH-WATER WETLANDS CRITICAL HABITAT

DISTANCE TO LAND USES

COMMERCIAL/INDUSTRIAL

PARK/FOREST/RESIDENTIAL

AGRICULTURAL LAND

PRIME FARMLAND

HISTORIC SITE WITHIN VIEW?

TOTAL TARGETS SCORE.

N/A

AIR ROUTE SCORE (Sa) = 0.00

FOR

SITE: GEORGIA PACIFIC CORP SAVANNAH 1 AS OF 11/19/86

GROUND WATER ROUTE SCORE

ROUTE CHARACTERISTICS 5
CONTAINMENT X 3
WASTE CHARACTERISTICS X 23
TARGETS X 49

 $= 16905 / 57,330 \times 100 = 29.49 = S_{gw}$

SURFACE WATER ROUTE SCORE

ROUTE CHARACTERISTICS 10
CONTAINMENT X 3
WASTE CHARACTERISTICS X 23
TARGETS X 8

= 5520 /64,350 X 100 = 8.58 = S_{sw}

AIR ROUTE SCORE

OBSERVED RELEASE 0 /35,100 X 100 = 0.00 = Sain

SUMMARY OF MIGRATION SCORE CALCULATIONS

	s 	S 2	
GROUND WATER ROUTE SCORE (Saw)	29.49	869.66	
SURFACE WATER ROUTE SCORE (S.w.)	8 . 58	73.62	
AIR ROUTE SCORE (S.I.)	0 00	0.00	
S2 aw + S2 aw + S2 a i r		943.28	
$\sqrt{(S^2_{aw} + S^2_{aw} + S^2_{air})}$		30.71	
$S_{M} = \sqrt{(S_{aw}^{2} + S_{aw}^{2} + S_{a+r}^{2})/1.73}$		17.75	

HAZARD RANKING SYSTEM SCORING SUMMARY

FOR

GEORGIA PACIFIC CORP SAVANNAH 4
EPA SITE NUMBER GAD990741332
SAVANNAH
CHATHAM COUNTY, GA
EPA REGION: 4

SCORE STATUS: IN PREPARATION

SCORED BY BELINDA BROCK OF NUS CORPORATION ON 11/06/86

DATE OF THIS REPORT: 11/20/86 DATE OF LAST MODIFICATION: 11/20/86

GROUND WATER ROUTE SCORE : 52.35
SURFACE WATER ROUTE SCORE: 8.58
AIR ROUTE SCORE : 0.00
MIGRATION SCORE : 30.66

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HRS GROUND WATER ROUTE SCORE

	CATEGORY/FACTOR		RAW	DATA	ASN.	VALUE	SCORE
1.	OBSERVED RELEASE		YES			4 5	45
2 .	ROUTE CHARACTER!	STICS		····			
	DEPTH TO WATER TO DEPTH TO BOTTOM						
	DEPTH TO AQUIFER	OF CONCERN					
	PRECIPITATION EVAPORATION						
	NET PRECIPITATIO	N					
	PERMEABILITY						
	PHYSICAL STATE						
	TOTAL ROUTE CHAR	ACTERISTICS	SCORE:				N/A
3	CONTAINMENT	· · · · · · · · · · · · · · · · · · ·					N/A
4 .	WASTE CHARACTER!	STICS					
	TOXICITY/PERSIST	ENCE: ARSENIC					1 8
	WASTE QUANTITY	CUBIC YDS DRUMS GALLONS TONS		3 1 2 0 0 0			
		TOTAL		312 CU.	YDS	5	5
	TOTAL WASTE CHAR	ACTERISTICS	SCORE:				23
5	TARGETS		 				
	GROUND WATER USE					3	9
	DISTANCE TO NEAR AND TOTAL POPULATION NUMBER OF HOU NUMBER OF PER NUMBER OF CON NUMBER OF IRR	SERVED SES SONS NECTIONS	MATRI	OOO FEET X VALUE 190 PERS 50 0 0		20	20
	TOTAL TARGETS SO	ORE::					29

HRS SURFACE WATER ROUTE SCORE

	CATEGORY/FACTOR	RAW DAT	A ASN.	VALUE	SCORE
1.	OBSERVED RELEASE	NO		0	0
2 .	ROUTE CHARACTERISTICS			·····	
	SITE LOCATED IN SURFACE SITE WITHIN CLOSED BASE FACILITY SLOPE		ā.		
	INTERVENING SLOPE	1.0		0	٥
	24-HOUR RAINFALL	3.8	INCHES	3	3
	DISTANCE TO DOWN-SLOPE	WATER 3000	FEET	2	4
	PHYSICAL STATE		3		3
	TOTAL ROUTE CHARACTER!	STICS SCORE:			10
3.	CONTAINMENT		3	 	3
4 .	WASTE CHARACTERISTICS				
	TOXICITY/PERSISTENCE: A	RSENIC			18
	WASTE QUANTITY CUBIC DRUMS GALLON TONS	o			
	TOTAL	312	CU. YDS	5	5
	TOTAL WASTE CHARACTER!	STICS SCORE:			23
5	TARGETS				
	SURFACE WATER USE			2	6
	DISTANCE TO SENSITIVE COASTAL WETLANDS FRESH-WATER WETLAND CRITICAL HABITAT	NONE	FEET	1	2
	DISTANCE TO STATIC WAT DISTANCE TO WATER SUPP AND TOTAL POPULATION SERVE NUMBER OF HOUSES NUMBER OF PERSONS NUMBER OF CONNECTIO	LY INTAKE > 3 MATRIX V/ D O O		0	0
	NUMBER OF ERRIGATED				8

HRS AIR ROUTE SCORE

CATEGORY/FACTOR.

RAW DATA

ASN. VALUE SCORE

OBSERVED RELEASE

NO

O

O

2. WASTE CHARACTERISTICS

REACTIVITY:

MATRIX VALUE

INCOMPATIBILITY

TOXICITY

WASTE QUANTITY CUBIC YARDS

DRUMS GALLONS TONS

TOTAL

TOTAL WASTE CHARACTERISTICS SCORE:

N/A

3. TARGETS

POPULATION WITHIN 4-MILE RADIUS

- 0 to 0.25 mile
- 0 to 0.50 mile
- 0 to 1.0 mile
- 0 to 4.0 miles

DISTANCE TO SENSITIVE ENVIRONMENTS
COASTAL WETLANDS
FRESH-WATER WETLANDS
CRITICAL HABITAT

DISTANCE TO LAND USES
COMMERCIAL/INDUSTRIAL
PARK/FOREST/RESIDENTIAL
AGRICULTURAL LAND
PRIME FARMLAND
HISTORIC SITE WITHIN VIEW?

TOTAL TARGETS SCORE:

N/A

AIR ROUTE SCORE (Sa) = 0 00

HAZARD WANKING SYSTEM SCORING CALCULATIONS

SITE: GEORGIA PACIFIC CORP SAVANNAH 4 AS OF 11/20/86

GROUND WATER ROUTE SCORE

OBSERVED RELEASE 45
WASTE CHARACTERISTICS X 23
TARGETS X 29

= 30015 /57,330 X 100 = 52.35 = S_{gw}

SURFACE WATER ROUTE SCORE

ROUTE CHARACTERISTICS 10
CONTAINMENT X 3
WASTE CHARACTERISTICS X 23
TARGETS X 8

= 5520 /64,350 X 100 = 8.58 = S_{*w}

AIR ROUTE SCORE

OBSERVED RELEASE 0 /35,100 X 100 = 0.00 = Sair

SUMMARY OF MIGRATION SCORE CALCULATIONS

	S	g 2
GROUND WATER ROUTE SCORE (Saw)	52.35	2740.52
SURFACE WATER ROUTE SCORE (Saw)	8.58	73.62
AIR ROUTE SCORE (Sair)	0.00	0.00
S ² gw + S ² gw + S ² g, r		2814.14
$\sqrt{(S^2_{gw} + S^2_{sw} + S^2_{sir})}$		53.05
$S_{M} = \sqrt{(S_{gw}^{2} + S_{sw}^{2} + S_{sir}^{2})/1.73}$		30.66

HAZARD RANKING SYSTEM SCORING SUMMARY

FOR

GEORGIA PACIFIC CORP SAVANNAH 3
EPA SITE NUMBER GAD990741332
SAVANNAH
CHATHAM COUNTY, GA
EPA REGION: 4

SCORE STATUS: IN PREPARATION

SCORED BY BELINDA BROCK OF NUS CORPORATION ON 11/05/86

DATE OF THIS REPORT: 11/21/86
DATE OF LAST MODIFICATION: 11/21/86

GROUND WATER ROUTE SCORE: 45.13
SURFACE WATER ROUTE SCORE: 8.58
AIR ROUTE SCORE: 0.00
MIGRATION SCORE: 26.55

HRS GROUND WATER ROUTE SCORE

	CATEGORY/FAC	TOR	RAW DATA	ASN.	VALUE	SCORE
1.	OBSERVED RELI	VED RELEASE	YES		45	45
2 .	ROUTE CHARAC	TERISTICS				
	DEPTH TO WATE					
	DEPTH TO AQU	IFER OF CONCERN				
	PRECIPITATION EVAPORATION	N				
	NET PRECIPITA	ATION				
	PERMEABILITY					
	PHYSICAL STAT	re				
	TOTAL ROUTE (CHARACTERISTICS	SCORE:			N/A
3 .	CONTAINMENT	****				N/A
4	WASTE CHARACT	TERISTICS				
	TOXICITY/PERS	SISTENCE: ARSENIC				18
	WASTE QUANTIT	TY CUBIC YDS DRUMS GALLONS TONS	312 0 0			
		TOTAL	312 CU	YDS	5	5
	TOTAL WASTE	CHARACTER STICS	SCORE:			23
5 .	TARGETS					
	GROUND WATER	USE			3	g
	DISTANCE TO NAND TOTAL POPULAT NUMBER OF	TION SERVED HOUSES	2500 FE MATRIX VALU 190 PE 50 0	E.	16	1 গু
		CONNECTIONS LARIGATED ACRES	o o			
	TOTAL TARGETS	S SCORE:				25

HRS SURFACE WATER ROUTE SCORE

	CATEGORY/FACTOR.	RAW DATA	ASA	I. VALUE	SCORE
1.	OBSERVED RELEASE	NO	•	0	0
2 .	ROUTE CHARACTERISTICS				
	SITE LOCATED IN SURFACE WATER SITE WITHIN CLOSED BASIN FACILITY SLOPE	NO NO O . 9		•	2
	INTERVENING SLOPE	1.0		0	0
	24-HOUR RAINFALL	3.8	INCHES	3	3
	DISTANCE TO DOWN-SLOPE WATER	3000	FEET	2	4
	PHYSICAL STATE		3		3
	TOTAL ROUTE CHARACTERISTICS SC	ORE:			10
3.	CONTAINMENT		3		3
4 .	WASTE CHARACTERISTICS				
	TOXICITY/PERSISTENCE: ARSENIC				18
	WASTE QUANTITY CUBIC YDS DRUMS GALLONS TONS	312 0 0 0			
	TOTAL	312	CU. YDS	5	5
	TOTAL WASTE CHARACTERISTICS SC	ORE:			23
5	TARGETS				
	SURFACE WATER USE			2	б
	CISTANCE TO SENSITIVE ENVIRONM COASTAL WETLANDS FRESH-WATER WETLANDS CRITICAL HABITAT	NONE 2500 NONE	FEET	1	2
	DISTANCE TO STATIC WATER DISTANCE TO WATER SUPPLY INTAK AND TOTAL POPULATION SERVED NUMBER OF HOUSES NUMBER OF PERSONS NUMBER OF CONNECTIONS NUMBER OF IRRIGATED ACRES) 3 E) 3 MATRIX VA O O O O	MILES	0	0
	TOTAL TARGETS SCORE:				8

HRS AIR ROUTE SCORE

CATEGORY/FACTOR RAW DATA ASN. VALUE SCORE

1. OBSERVED RELEASE NO 0 0

2. WASTE CHARACTERISTICS

REACTIVITY:

MATRIX VALUE

INCOMPATIBILITY

TOXICITY

WASTE QUANTITY CUBIC YARDS

DRUMS GALLONS TONS

TOTAL

TOTAL WASTE CHARACTERISTICS SCORE:

N/A

3. TARGETS

POPULATION WITHIN 4-MILE RADIUS

- 0 to 0.25 mile
- 0 to 0.50 mile
- 0 to 1.0 mile
- 0 to 4.0 miles

DISTANCE TO SENSITIVE ENVIRONMENTS

COASTAL WETLANDS FRESH-WATER WETLANDS CRITICAL HABITAT

DISTANCE TO LAND USES
COMMERCIAL/INDUSTRIAL
PARK/FOREST/RESIDENTIAL
AGRICULTURAL LAND
PRIME FARMLAND
HISTORIC SITE WITHIN VIEW?

TOTAL TARGETS SCORE:

N/A

AIR ROUTE SCORE (Sa) = 0.00

HAZARD WANKING SYSTEM SCORING CALCULATIONS

SITE: GEORGIA PACIFIC CORP SAVANNAH 3 AS OF 11/21/86

GROUND WATER ROUTE SCORE

OBSERVED RELEASE 45
WASTE CHARACTERISTICS X 23
TARGETS X 25

 $= 25875 / 57,330 \times 100 = 45.13 = S_{gw}$

SURFACE WATER ROUTE SCORE

ROUTE CHARACTERISTICS 10
CONTAINMENT X 3
WASTE CHARACTERISTICS X 23
TARGETS X 8

= 5520 /64,350 X 100 = 8.58 = S_{**}

AIR ROUTE SCORE

OBSERVED RELEASE 0 /35,100 X 100 = $0.00 = S_{eig}$

SUMMARY OF MIGRATION SCORE CALCULATIONS

	S	S 2
GROUND WATER ROUTE SCORE (Saw)	45.13	2036.72
SURFACE WATER ROUTE SCORE (S.w)	8.58	73.62
AIR ROUTE SCORE (Sair)	0.00	0.00
S2gw + S2gw + S2gir		2110.34
$\sqrt{(S^2_{gw} + S^2_{aw} + S^2_{air})}$		45.94
$S_{M} = \sqrt{(S_{gw}^{2} + S_{sw}^{2} + S_{sir}^{2})/1.73}$		26.55

SITE INSPECTION REPORT GEORGIA PACIFIC CORPORATION SAVANNAH GAD990741332

Charles Stephen Walker Georgia Environmental Protection Division August 1986

Reviewed By: Mikefillud Date: 9-11-86

GEORGIA PACIFIC CORPORATION SAFAMMAH

SITE INVESTIGATION REPORT

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GEORGIA PACIFIC CORPORATION SAVANNAH

SITE INVESTIGATION REPORT

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1.0 IKECUTIVE SULLARY

The Georgia Pacific Corporation Savannah site consists of two 3 acre disposal areas that received miscellaneous solid wastes from the adjacent Georgia Pacific plywood/wall paneling plant. A long time employee of the facility has stated that from 1959 until 1965, about 2 - 4 drums of liquid/sludge waste solvents, paints, mineral spirits, etc. were generated at the facility each week. These wastes were poured out onto the ground at the subject disposal areas. An approximate waste volume of 312 cubic yards has been calculated from this information. The wastes in disposal areas 1 & 2 received little, if any, soil cover.

On November 21, 1985, personnel from the EPD obtained soil and shallow ground water samples from the two disposal areas on-site. The subsequent laboratory analyses indicated that shallow ground water in area 2 contained concentrations of total chromium that were significantly greater than background concentrations. A soil sample obtained from around some crushed drums in area 1 contained high concentrations of toluene and methyl isobutyl ketone.

The Georgia Pacific Corporation subsequently began efforts to define the impact of the contaminants to the soil and shallow ground water on-site. The Georgia Pacific Corporation obtained a total of 42 soil samples from the two disposal areas. A total of two soil borings have been completed at the site to determine the depth and extent of the shallow aquifer prior to installation of monitoring wells. The monitoring wells are scheduled for installation during late August

1906, and they will be used to monitor up and downgradient locations of the shallow aquifer around each disposal area.

2.0 BACKGROUND

2.1 Location

The Georgia Pacific Savannah site is located immediately north of the Old Louisville Road approximately 2 miles southwest of the township of Garden City and about 5 miles west of the Savannah Municipal Courthouse (Appendix A, Figure 1). The mailing address for the facility is P. O. Box 367, Old Louisville Road, Savannah, Georgia 31498.

2.2 Site Layout

The Georgia Pacific facility is comprised of approximately 207 acres, approximately 25 of which are occupied by a wall panelling and plywood manufacturing plant and associated buildings (Appendix A, Figure 2). Two waste disposal areas (collectively considered to be the site) exist on the Georgia Pacific property. Disposal Areas 1 & 2 (See Appendix A, Figure 2) occupy approximately 3 acres each and various types of solid waste (various metal scrap, pallets and a few crushed drums) are partially visible on the surface. Both disposal areas are moderately vegetated with bushes, and in some places, with young willow trees.

The remaining 176± acres are composed of waste water treatment ponds, an abandoned bark disposal area and vacant/wooded land.

Access to the site is restricted. Portions of the Georgia Pacific property are fenced. A security guard is stationed along the road leading to the facility.

2.3 Ownership History

In 1946, General Plywood Corporation constructed a plywood manufacturing plant on the subject property. This plywood operation continued until 1949 when the plant and property were purchased by the Georgia Pacific Corporation. Georgia Pacific still owns and operates the facility.

2.4 Site Use History

From 1946 until 1949, General Plywood operated a plywood manufacturing facility at the subject property. In 1949, the property and accompanying facility were purchased by the Georgia Pacific Corporation. Georgia Pacific then began manufacturing plywood made from hardwood trees. In the early 1960's, Georgia Pacific also began to operate a resin plant at the facility. In mid-1970, this resin facility was relocated to Port Wentworth, Georgia. From 1965 until 1379, Georgia Pacific operated a pine plywood manufacturing operation at the acility. Since 1957, the facility has manufactured pre-finished wall paneling. Plywood made from hardwood is also still manufactured at the facility (Appendix D, Attachments 1 and 2).

2.5 Permit and Regulatory History

The subject facility has the following permits:

<u>Type</u>	Number	Information
Ground Water	025-0019	for withdrawal of 100,000 gpd from 2 wells drawing from the Principal Artesian Aquifer only. Issued 1975 and is continuing (renewed semi-annually).
NPDES	GA 0003051	for sanitary wastewater, storm water, boiler blow down, cooling water and

<u>Type</u>	Number	Information			
		softener backwash. Discharge to Pipe Maker's Canal with a grab sample at the outfall every 2 months. Sample is tested for BOD, suspended solids and pH (pH should be >6.0 or <9.0). Term - 6/15/84 5/31/89.			
Air	2436-623-8221-0	for pagnesses sander dust, glues and coatings in boiler washdown. Limit of 0.27 lbs/10 ⁶ BTU.			

2.6 Remedial Actions to Date

No remedial actions have taken place at this site; however, a total of 22 "observation" wells were placed around disposal areas 1 & 2 sometime prior to 11/21/85. The wells were constructed of 2 inch PVC pipe and were placed in order to deduce ground water elevations and flow directions at both disposal areas.

2.7 Summary Trip Report

On November 21, 1985, Steve Walker and Johnny Morgan (the sampling team) of the Georgia EPD arrived on site at 08:20 hours to inspect and obtain samples from the 2 disposal areas. The sampling team met briefly with the following persons:

Mr. Gerald Tice, Chief Environmental Engineer Tom Stevens, Environmental Engineer Mr. Lawrence Otwell, Environmental Engineer Eastern Wood Products Manufacturing Division Georgia Pacific Corporation

Ms. Janette M. Davis, Chief Chemist Mr. Jim Snyder, Technician Savannah Laboratory and Environmental Services, Inc. Mr. Stevens explained that two days previous to the visit by the EPD, the Georgia Pacific Timber Products Division was clearing and grubbing an area which included Area 1. Mr. Stevens explained that several rusty drums of what appeared to be solvents and paints were uncovered by heavy equipment. The meeting ended and the sampling team was escorted by the Georgia Pacific personnel and a sampling technicial from Savannah Labs on a reconnaissance of Area 1. The area appeared to be surrounded with 2 inch, PVC monitoring wells. Mr. Stevens stated that the wells were "observation" wells which were placed to discern shallow ground water flow direction. Mr. Stevens stated that he had not told EPD of the wells because the EPD did not specifically ask if the wells were present.

All personnel returned to the vehicles and obtained sampling materials. A background soil sample was obtained prior to sampling an observation will which was adjacent to the exumed drums.

The sampling team then returned to the drum area and obtained a composite surface soil sample from the area immediately around the drums. All samples were split with the Georgia Pacific Corporation. The sampling team then returned to the vehicles and proceeded to Area 2.

Area 2 was covered with bushes and small trees and like Area 1, it was also surrounded by observation wells. A composite surface soil sample was obtained from the area and a water sample was obtained from an observation well. The samples from Area 2 were also split with Georgia Pacific.

Mr. Stevens and Mr. Snyder returned to Area 2 to get some waste samples from the drums. The sampling team returned to the main plant office with Mr. Tice and Mr. Otwell, where Mr. Tice pointed out the location of 2 deep wells on site.

The sampling team was off-site by 13:00 hours.

The team conducted a well survey of houses around the site on the Old Louisville Road and in the Woodlawn Terrace/Sharon Park Communities. In approximately 20% of the homes visited, residents were home. Most persons interviewed stated that they had a deep (several hundred feet) well. Several residents had no idea of the depth of their well. No shallow wells were found during the survey. All homes within one mile to the south, east and west of the site are on well water. Most homes have a private well, although community wells serving several houses each are in the Woodlawn Terrace/Sharon Park areas.

3.0 ENVIRONMENTAL SETTING

3.1 Topography

The topography of the Georgia Pacific property is essentially flat with a slope of approximately 1 or 2% toward the northwest (Appendix A, Figure 1).

3.2 Surface Waters

Surface run-off from the Georgia Pacific property enters Pipemaker's Canal about 3,000 feet northwest of the site. Pipe Maker's Canal enters the Savannah River about 3 miles (by air) northeast of the site (Appendix A, Figure 3). The Savannah River enters the Atlantic Ocean approximately twelve air miles east of the site. Tidal influence occurs along Pipe Maker's Canal at the Georgia Pacific property.

3.3 Geology and Soils

The site is underlain at depth by metamorphic and igneous crystalline "basement" rocks which are overlain by clastics and carbonates of Cretaceous to Pleistocene age. Important rock units in ascending order are the Ocala Group, the Suwanee Limestone, the Hawthorne Group and overlying sediments.

The Ocala Group and overlying Suwanee Limestone are composed of permeable carbonates which are collectively several hundred feet thick. The Suwannee Limestone is found at a depth of approximately 250 feet at the Georgia Pacific site. The overlying Hawthorne Group is composed chiefly of clays and silts and is roughly 200-250 feet thick in the site area. The Hawthorne is overlain

by unconsolidated sands, silts and clays approximately 35-50 feet thick (Appendix D, Attachments 3, 4 & 5).

From observations made on-site on 11/21/85, the surficial soil appeared to be sandy and quite permeable. At a depth of 1 foot, the soil appeared to be much less permeable and more clay-rich.

3.4 Ground Water

In the general site area, potable ground water occurs in the Ocala Group and Suwannee Limestone (collectively known in Georgia as the Principal Artesian Aquifer), in sandy zones within the Hawthorne Group and in sandy zones and lenses in the surficial, unconsolidated sediments (1).

The Principal Artesian Aquifer is by far the most widely used aquifer in Chatham County and the general site area. This prolific aquifer commonly yields 1 to 5 thousand qpm.

The Hawthorne Group contains clays and sandy clays with lens shaped bodies of sand, gravel and thin carbonate layers. This geologic unit acts as a confining layer above the Principal Artesian Aquifer. Nevertheless, these highly variable permeable layers and lenses within the Hawthrone Group can provide over 100 gpm to wells that have been properly developed.

The more permeable surficial sediments overlying the Hawthorne Group may provide potable water in amounts ranging from 25 to 200 gpm.

Water quality in all three aquifers is generally good (2).

3.5 Climate and Meteorology

Savannah and the general site area generally have hot, humid summers and cold to warm winters. The climate of the site area is influenced by continental air masses moving from the northwest and by ocean air masses from the Atlantic and Gulf of Mexico. The average annual rainfall for the site area is 49-52 inches (3).

3.6 Land Use

Land use within Chatham County is as follows - 1979 estimates (3):

Use	Acres	Percent
forest	85, 297	46.2
urban	85,000	46.0
pasture	6,968	4.0
cropland	5,229	2.8
rural roads	2,156	1.0
	184,650	100.0

The two disposal areas which comprise the site are no longer in use.

3.7 Population Distribution

Land within one mile, east, north and west of the site is sparsely populated. The Woodlawn Terrace and Sharon Park Subdivisions are located 1/2 mile south and 1 mile southeast of the site respectively.

Population estimates were made for radii of one, two and three miles from the disposal areas. These estimates were based on house/building counts from USGS 7.5 Minute Topographic maps, Port Wentworth and Garden City Quadrangles. The topographic maps were dated 1971 and 1980 respectively. Houses/buildings were counted and assigned a value of 3.8 persons per house/building. The following population data resulted from these efforts:

Distance from Site	No. Buildings/Houses	No. Persons
1 mile	467 x 3.8 + 300*	= 2 , 075
2 miles	2,240 x 3.8 x 300*	8,812
3 miles	4,800 x 3.8 + 300*	= 18,540

*Note - the 300 employees of the Georgia Pacific facility are added to the total number of persons. The buildings of the actual Georgia Pacific facility were not counted.

3.8 Water Supply

Water is supplied to the Georgia Pacific facility from 2 deep wells located adjacent to the plant. These wells are 568 and 274 deep. The facility is permitted by the EPD to withdraw 100,000 gallons per day from both wells combined.

Numerous private wells were observed along Old Louisville Road during a well survey conducted by EPD personnel on 11/21/86. Also, five residences immediately south of disposal area 1 (Appendix A, Figure 1) possess private wells. Depths of most of these wells are unknown as few of the residents were home at the time of the well survey. Those residents that were home stated that they had a "deep" (depth unspecified) well. When asked further about the depth of these wells, many residents would say "several hundred feet". The township of Garden City is located 1.5 miles northeast of the site. A total of three municipal wells supply Garden City with drinking water. These wells all draw from the Principal Artesian Aquifer and the closest active municipal well to the site is shown in Appendix A, Figure 1. The Woodlawn

Terrace and Sharon Park substitistions which are south of the site, are supplied with drinking water by the Garden City Municipal Water System. Mr. Paul Clawson, a consulting geologist, was contacted and he indicated that he was aware of 3 private shallow wells (<25 feet deep) within 3 miles of the site area that are used for drinking. He stated that he could not remember the exact locations of the wells or the names of the residents who use the wells.

3.9 Critical Environments

Marshlands greater than 5 acres in size exist along Pipe Maker's Canal about 1/2 mile northwest of the site and along an unnamed drainage canal about 2 miles south of the site. These marshlands are believed to be influenced to some extent by the local tidal fluctuations (Appendix D, Attachment 6). The marshlands are assumed to consist of mostly fresh water although they may contain some sea water during periods of very high tides.

The Humpback Whale and the Manatee have both been observed along Coastal Chatham County. However, both are thought to only migrate through the coastal portion of Chatham County (4). In addition, Chatham County is habitat for the Bald Eagle, the Red Cockaded Woodpecker, the Brown Pelican, Kirtland's Warbler and the American Alligator.

4.0 WASTE TYPES AND QUANTITIES

4.1 Waste Types

Lacquers, paints and unspecified solvents were used by the Georgia Pacific facility and were allegedly dumped in the two disposal areas from 1959 to 1903. These wastes were alleged to have been a liquid or sludge when disposed (Appendix D, Attachment 7 & 8).

4.2 Waste Disposal Methods and Locations

Hazardous materials were reportedly poured out onto the ground and allowed to "percolate through". This waste disposal occurred in two areas on the Georgia Pacific property. Each area is approximately three acres in size (Appendix A, Figure 2). Observations made at the disposal areas on 11/21/85 by EPD personnel indicated that materials disposed of in these areas consisted of various wood and metal scraps and empty and almost empty fifty-five gallon drums which appear to have been crushed. Quantities of bark, wiring, and miscellaneous solid wastes were also disposed of in these two areas. Waste materials were apparently dumped out onto the surface. Boring information gathered by Georgia Pacific during Phase I of their site investigation, indicated that fill material at the site may extend to a depth of 2.5 feet below the surface.

4.3 Waste Quantities

Mr. Leon Stephenson, long time employee and present Plant Superintendent at the Georgia Pacific facility, indicated in a phone conversation with Steve Walker of the Georgia EPD that from 1959-1965, two to four druns of liquid/sludge wastes were generated at the plant each week. He stated that these wastes were simply poured out onto the surface of the ground and that no drums were ever buried (Appendix D, Attachment 7). Crushed drums containing solvent residues were observed by EPD personnel in area 1 on 11/21/85. An approximation of waste quantity may be obtained by assuming 4 drums of waste per week times 52 weeks per year. This yields 208 drums (52 cubic yards) of waste each year for six years. Total liquid/sludge waste volume is therefore estimated to be approximately 1,248 drums or 312 cubic yards.

An unknown quantity of miscellaneous solid waste was also disposed of in areas 1 and 2.

5.0 LABORATORY DATA

5.1 Summary

Sampling at the site identified the following substances in the indicated amounts. The only substances listed are ones that do not naturally occur or are hazardous metals with total values three times above the laboratory detection limit and ten times above the background value for the metal. Analysis by EPD lab and by contract lab for Georgia Pacific Corporation:

SUBSTANCE	SAMPLE TYPE	AREA 1 OR	2 AMOUNT	
toluene	soil	1	32,000	mg/kg
methyl isobutyl ketone	soil	1	26,000	mg/kg
bis (2 ethylhexyl) phthalate	soil	1	39	mg/kg
chromium	groundwater	2	145	μg/L (total)
arsenic	soil	1 & 2	1.4 - 1800	mg/L (total)
lead	soil	1 & 2	4.3 - 1300	mg/L (total)

5.2 Quality Assurance Review

All sampling and subsequent analysis were conducted in accordance with procedures set forth in EPA publication SW 846 "Test Methods for Evaluation of Solid Waste" (5).

6.0 TOXICOLOGICAL/CHEMICAL CHARACTERISTICS

The substances identified in samples collected at the site have the following properties (6):

<u>arsenic</u> - a human carcinogen; lowest oral dose producing toxic effects in a man is 7,856 mg/kg/55 years; OSHA standard in air is a time weighted average of 500 μ g/m³.

<u>chromium</u> - suspected animal carinogen; OSHA standard in air is a time weighted average of 1 mg/m^3 ; toxicity varies with the valence state (hexavalent is thought to be more toxic than the trivalent state) and the compound.

bis (2 ethylhexyl) phthalate - is possible human carcinogen; oral rat LD_{50} - 31 grams/kg; lowest oral dose which has produced toxic effects in a man is 143 mg/kg; OSHA standard in air is a time weighted average of 5 mg/m³.

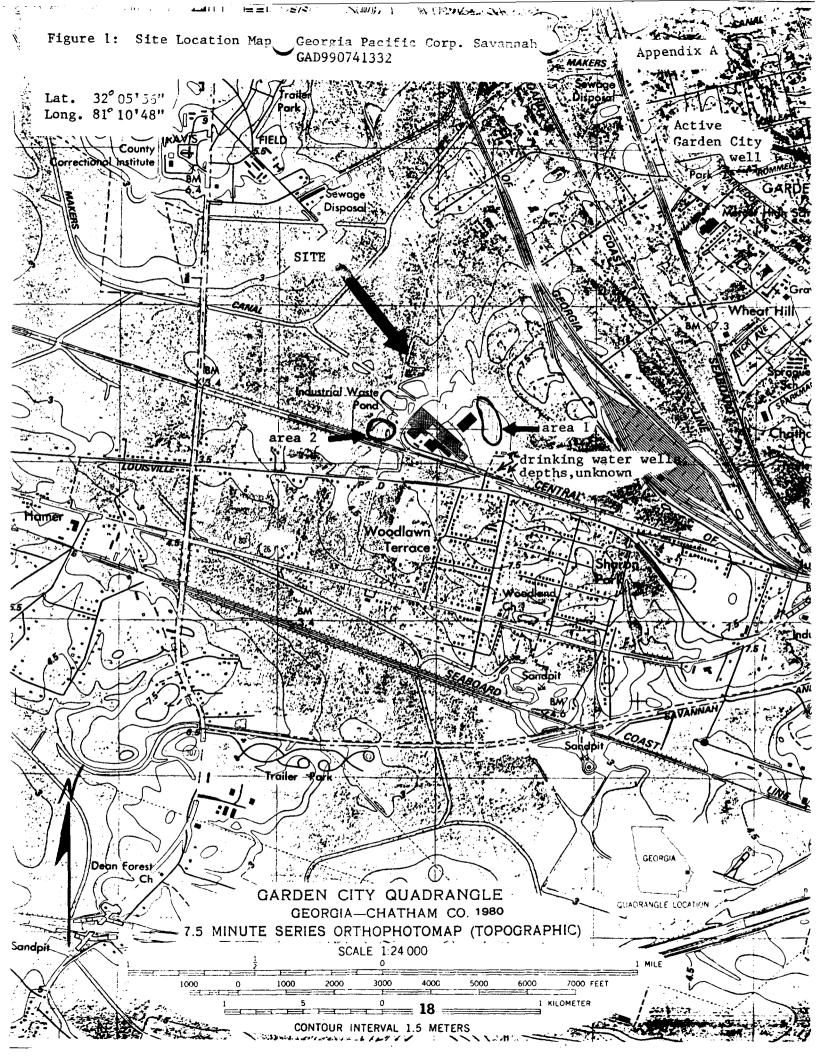
<u>lead</u> - lowest oral dose producing toxic effects to the central nervous system in a human (woman) is 450 mg/kg/6 years; OSHA standard in air is a time weighted average of 200 μ g/m³. Especially damaging to the lungs and kidneys.

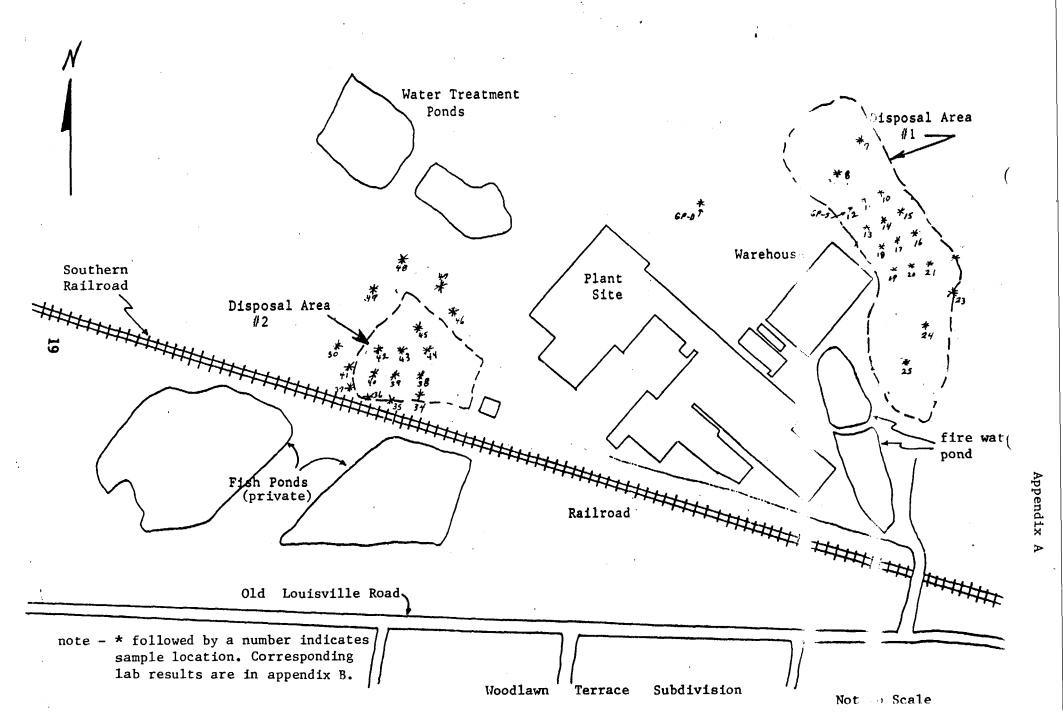
methyl isobutyl ketone - oral rat LD_{50} - 2080 mg/kg; lowest concentration in air producing a toxic effect in a human is 200 ppm; OSHA standard in air is a time weighted average of 100 ppm.

toluene - oral rat LD $_{50}$ - 5,000 mg/kg; the lowest concentration producing a toxic effect on the human central nervous system is 200 ppm (by inhalation); OSHA standard in air is a time weighted average of 200 ppm (with no time period specified).

CSW/mcw004

APPENDIX A







APPENDIX B

LABORATORY REPO'

Appendix B P.1 of 16

SAPLE PROJECT: 60. Parific - Savannah COLLECTOR: Walker DATE: 4-14-86 REC'D LABEL TDE REC'D 1430 D. Rped EX: S. walker DATE: 5-29-86 PARAMETERS LAB NO. HW 1870 Volatile Organic Confounds (10%) 5.6 m9/Kg Total As Ba 800 190 425 <20 49/L 49 AS 160 $\mathbb{E}a$ 420 420 450 4100 Se ms/15 day Bis (2 Ethyl Hexyl) Phthalate 39 :21:13: 22 PEMEDIAL ACTIONS UNIT

1 ADDODATODY DEDC

p.2 of 16

		·	
DATE: 4/1/86 PROJECT:	Ga. Pacific - Sa	youngh con	ECTOR: Walker
HN LCC	n 1010		1
DATE	_		
REC'D BY: D Rod DEL BY: S walker	- Waste - white sold		
Harold Langued LABORATORY MANAGER	- white Solid from drum		
DATE: 57 - 29 - 8 G PARAMETERS LAS	3 10. 1111369		
	19/1/2 <		
DH (10%)	9 =		
PH (10%)	9,5		
lotal Ag mg	/Kg <20		
ii As	1 <60		
II Ba "			
"] ', Cd ,,	< 2.0		
ii Cr V	450		
11 Se1	4100		
	1/2 < 100	·	
11 As "			
11 Ba 11			
cd ''	<100 <100		
· Ph	4250		
). Se)!			
BASE Mutral Organic Compound	4 m3/x, < 10		
			BECEIVED
		<u> </u>	
R21145:			JUN 10-15-0-
		23	DEMENIAL ANTIQUE LINES
			REMEDIAL ACTIONS UNIT

p.3 of 16 WPLE PROJECT: Georgia Parific - Sovannah COLLECTOR: Walker DATE: HILOS ID. DATE REC'D DATE: 12-11-05 TAB NO. PARAMETERS HW 1633 HW1635 Volatile orequic compands 47/0 41 420 TOTAL 420 450 70 525 410 < 10 410 Ŋ 145 120 150 450 se 49/2 MISSOLVEN 420 420 425 425 <10 45 4 Ba); 410 •1 ٠ŧ 410 410 410 420 420 DISMER BURNER 0\$C 13 1903 PD:125: REMEDIAL ACTIONS UNIT 24

LABORATORY REPOR-

Appendix B

p.4 of .16 Walker HW LOG NO. DATE LAREL. REC'D TPE REC'D REC'D Harold Lanford
LABORATORY MANAGER area DATE: 12-11-85 PARAMETERS LAB NO. HW 1632 HW 1636 HW 1634 Tolvene 32,000 Metter I Isobuty/ Ketone 26,000 4100 420 420 <30 < 150 80 1820 50. <10 <10. <10 450 le: 1 .0 <20 <100); 150 < 50 **4250** 11 DEC 13 19d5 :27::3: REMEDIAL ACTIONS UNIT 25

James W. Andrews, Ph.D. President
Janette M. Davis
Chief Chemist, VP

AND ENVIRONMENTAL SERVICES, INC. P.O. Box 13842 • Savannah, Ga. 31416-0842 912/354-7858



- LOG NO: 85-0772

Reported: 20 DEC 85

Tom Stevens
Commin-Pasific Composition
133 Peachtree St., NE
Atlanta, GA 30303

REPORT OF ANALYTICAL RESULTS

LOG NO SAMPLE				
	ream near drum site of Area from drum site of Area #2	#1		
PARAMETER	<u> </u>	0772-1	0772-2	
Arsenic, mg/l		0.03	<0.01	
Barium, mg/l		0.085	0.068	
Cadmium, mg/l		<0.01	<0.01	
Chromium, mg/l	•	<0.05	<0.05	
Lead, mg/l	. •	0.03	<0.01	
Selenium, mg/l		<0.05	<0.05	
Silver, mg/l		<0.05	<0.05	
Arsenic (Dissolved), mg/l	<0.01	<0.01	•
Barium (Dissolved)	·	<0.05	<0.05	
Cadmium (Dissolved), mg/l.	<0.01	<0.01	•
Chromium (Dissolved), mg/l		<0.05	<0.05	•
Lead (Dissolved).	Lead (Dissolved), mg/l		<0.01	
Selenium (Dissolve	d), mg/l	<0.05	<0.05	
Silver (Dissolved)	, mg/l	· <0.05	<0.05	

Note - Samples were splits of EAD samples

Appendix B p.6 of 16

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

James W. Andrews, Ph.D. President
Jameste M. Davis
Chief Chemist, VP

P.O. Box 13842 • Savannah, Ga. 31416-0842 912/354-7858



LOG NO: 85-0772

Received: 21 NOV 85 Reported: 20 DEC 85

Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , S	SOIL SAMPLES	•		
0772-3 0772-4 0772-5	GP-1 Background Soil GP-2 soil cmpos/drum s GP-3 soil cmpos/drum s	site/MW#7/Area #1			
PARAMETER		į	0772-3	0772-4	0772-5
Arsenic, mg	r/kg		88	1800	55 _U
Barium, mg/	kg		88	3.9	4.4
Cadmium, mg	;/kg		<0.059	1.5	0.59
Chromium. m	g/kg		7.1	3.6	41
Lead, mg/kg		•	12	. 59	80
Selenium, m	g/kg		<29	<29	<33
Silver, mg/	kg		<2.9	<2.9	<3.3

Note - Samples were splits of EPO soil samples

James W. Andrews, Ph.D.

Janette M. Davis Vice-President

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

P. O. Box 13842 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858

LOG NO: 86-0821

Received: 11 APR 86

Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIP	TION , SOIL SAM	IPLES			
0821-1	Site #1 - 10 -	Savannah Plant	arcal			
0821-2	Site #1 - 11 -	Savannah Plant				
0821-3	Site #1 - 12 -	Savannah Plant				
0821-4	Site #1 - 13 -	Savannah Plant	' '			
0821-5	Site #1 - 14 -	Savannah Plant	: "			
ARAMETER		0821-1	0821-2	0821-3	0821-4	0821-5
Arsenic, mg	/kg	7.4	8.1	. 15	14	6.3
Barium, mg/	kg	130	550	830	600	. 82
Cadmium, mg	/kg	0.10	0.16	0.10	0.38	0.06
Chromium, m	g/kg	<1.3	6.3	13	62	16
Lead, mg/kg		15	31	26	76	23
Mercury, mg		<0.02	0.10	0.10	0.40	0.10
Selenium, m	g/kg	<1	<2	<1	<2	<1
Silver, mg/		<1	<2	<1	<2	<1
			~			

p.8 of 16

James W. Andrews, Ph.D. President

Janette M. Davis Vice-President

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

P. O. Box 13842 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858



LOG NO: 86-0821

Received: 11 APR 86

Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NF Atlanta, GA 30303

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRI	PTION , SOIL SAMP	PLES			
0821-6	Site #1 - 15	- Savannah Plant	area 1		****	
0821-7	Site #1 - 16	- Savannah Plant	**	•		
0821-8	Site #1 - 17	- Savannah Plant	• •			
0821-9	Site #1 - 18	- Savannah Plant	• • • • • • • •			
0821-10	Site #1 - 19	- Savannah Plant	ч	•		
PARAMETER		0821-6	0821-7	0821-8	0821-9	0821-10
Arsenic, m	g/kg	3.9	9.1	8.2	3.5	6.3
Barium, mg	/kg	95	1100	740	260	800
Cadmium, m	g/kg	0.06	0.34	0.18	0.63	0.44
Chromium,	ng/kg	<1.5	36	29	<1.9	20
Lead, mg/kg	3	12	43	36	20	30
Mercury, m	g/kg	<0.03	0.20	0.06	0.05	0.06
Selenium,	ng/kg	<2	<1	<2	<2	<1
Silver, mg	/kg	<2	<1	<2	₹2	<1

Thomas L. Stephens Laboratory Director

James W. Andrews, Ph.D. President

Janette M. Davis Vice-President

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC. TALLAHASSEE DIVISION

TALLAHASSEE DIVISION

P. O. Box 13056 • Tallahassee, FL 32317-3056
2820 Industrial Plaza Blvd. (32301)
(904) 878-3994



LOG NO: 86-0821

Received: 11 APR 86

Tom Stevens
Georgia-Pacific Corporation
133 Peachtree St., NE
Atlanta, GA 30303

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIP	TION , SOIL SAM	PLES			
0821-11	Site #1 - 20 -	· Savannah Plant	arus. 1			
0821-12		- Savannah Plant			•	
0821-13	Site #2 - 34 -	Savannah Plant	ares 5			
0821-14	Site #2 - 35 -	Savannah Plant	,,	\$ 1		
0821-15	Site #2 - 36 -	Savannah Plant	"			
PARAMETER		0821-11	0821-12	13-12مر	0821-14	0821-15
Arsenic, mg	:/kg	3.7	2.2	15	11	9.1
Barium, mg/	'kg	22	940	690	3400	150
Cadmium, mg	/kg	0.04	0.07	0.68	0.73	0.61
Chromium, mg/kg		<0.9	40	16	17	19
Lead, mg/kg		6.3	20	23	25	24
Mercury, mg		0.03	0.30	0.2	0.2	0.4
Selenium, m	•	<1	<2	<2	<1	<1
Silver, mg/		<1	<2	<2	<1	<1

James W. Andrews, Ph.D. President

Janette M. Davis Vice-President

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.



P. O. Box 13342 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858

LOG NO: 86-0821

Received: 11 APR 98

Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE ... Atlanta, GA 30303

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRI	PTION , SOIL SAME	PLES			
0821-16	Site #2 - 37	- Savannah Plant	x 2		_	
0821-17	Site #2 - 38	- Savannah Plant				
0821-18	Site #2 - 39	- Savannah Plant	*/			
0821-19	Site #2 - 40	- Savannah Plant	••			
0821-20	Site #2 - 41	- Savannah Plant				
PARAMETER	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0821-16	0821-17	0821-18	0821-19	0821-20
Arsenic, mg	g/kg	13	6.5	5.1	11	4.1
Barium, mg/	'kg	430	570	660	1000	3500
Cadmium, mg	/kg	0.56	0.48	0.15	1.2	1.5
Chromium, n	ig/kg	20	27	15	31	33
Lead, mg/kg	\$	68	23	13	38	1300
Mercury, mg	r/kg	0.30	0.02	0.2	0.3	0.1
Selenium, m	ig/kg	. <3	<2	<1	<2	<1
Silver, mg/	'kg	<3	<2	<1	<2	<1

James W. Andrews, Ph.D. President

Janette M. Davis Vice-President

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.



P. O. Box 13842 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858

I.OG NO: 86-0821

Received: 11 APR 86

Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE D	ESCRIPTION , SOIL SAM	IPLES			
0821-21	Site #2	- 42 - Savannah Plant	ora 2			
0821-22	Site #2	- 43 - Savannah Plant				
0821-23	Site #2	- 44 - Savannah Plant	te gi			•
0821-24	Site #2	- 45 - Savannah Plant	. "			
PARAMETER			0821-21	0821-22	0821-23	0821-24
Arsenic, mg	 /kg		9.3	8.5	6.1	22
Barium, mg/	kg		2100	840	1400	4700
Cadmium, mg	/kg	•	0.78	0.55	1.8	1.0
Chromium, mg/kg			- 51	18	18	23
Lead, mg/kg			41	28	50	42
Mercury, mg	/kg		0.49	<0.0.1	0.03	0.20
Selenium, m	_		<2	<3	<2	<2
Silver, mg/			<2	<3	<2	<2

Methods: SW846

Janette M. Davis

James W. Andrews, Ph.D. President

Janette M. Davis Vice-President

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

P. O. Box 13842 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858

LOG NO: 00-0821

Received: 11 APR 86

Mr. Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION ,	SOIL SAM	IPLES	·	. · · · · · · · · · · · · · · · · · · ·	
0821-1	#1 - Savannah Plant					
0821-2	#7 - Savannah Plant					
0821-3	#8 - Savannah Plant	•				
0821-4	#9 - Savannah Plant					
0821-5	#23 - Savannah Plant					
PARAMETER		0821-1	0821-2	0821-3	0821-4	0821-5
Arsenic, mg/kg		32	9.6	1.5	1.4	3.0
Chromium, mg/kg Lead, mg/kg		44	7.5	11	4.2	4.8
		16	4.3	16	16	8.0
Mercury, mg	Mercury, mg/kg		<0.03	<0.03	<0.03	<0.03

Methods: EPA SW-846

James W. Anderws, Ph.D. President

Janette M. Davis Vice-President

SAVANNAH LIADUKATURILI

AND ENVIRONMENTAL SERVICES, INC.

P. O. Box 13842 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858



LOG NO: 00-0821

Received: 11 APR 86

Mr. Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMP	SAMPLE DESCRIPTION , SOIL SAMPLES							
0821-6	*24	- Savannah Plan							
0821-7	#25	- Savannah Plan	t						
0821-8	#46	- Savannah Plan	it						
0821-9	#47	- Savannah Plan	it						
0821-10	#48	- Savannah Plan	it						
PARAMAS			0821-6	0821-7	0821-8	0821-9	0821-10		
Arsenic, mg/kg		7.3	2.5	26	21	10			
Chromium,	mg/kg		25	26	53	21	10		
Lead, mg/	kg		24	45	37	29	8.0		
Mercury,	ng/kg		<0.03	<0.03	<0.03	<0.03	<0.03		
				~~~~~					

Methods: EPA SW-846

#### Whitfield Avenue at Shipyard Road (31406) (912) 354-7858

LOG NO: 00-0821

Received: 11 APR 86

Mr. Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

#### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOIL SAMPLES	,		
0821-11 0821-12	#49 - Savannah Plant #50 - Savannah Plant			
PARAMETER		0821-11	0821-12	
Arsenic, mg Chromium, m Lead, mg/kg Mercury, mg	g/kg	24 16 6.6 <0.03	25 22 9.4 <0.03	
********				

Methods: EPA SW-846

Janette M. Davis

#### HE WI GINDY WILL ROUGE (31400)

(912) 354-7858

LOG NO: 86-1181

Received: 21 MAY 86

Mr. Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

#### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION	, SOIL SAME	PLES		. *	
1181-1	<b>#13 (4' - 5')</b>					
1181-2	#13 (9' - 10')			* * *		
1181-3	<b>#16 (4' - 5')</b>				•	
1181-4	<b>#16 (9' - 10')</b>			•		
1181-5	#41 (4' - 5')	:				
PARAMETER		1181-1	1181-2	1181-3	1181-4	1181-5
Lead, mg/	<del>-</del>	4.7	7.2	8.7	5.7	9.5
Mercury,	my/ky	<0.03	<0.03	<0.03	<0.03	<0.03

Methods: EPA SW-846

Janette M. Davis Vice-President

# SAVANNAH LABORATORIES

# AND ENVIRONMENTAL SERVICES, INC.

P. O. Box 13842 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858



LOG NO: 86-1181

Received: 21 MAY 86

Mr. Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

#### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION . SOIL SAMPLES		
1181-6	<b>*41</b> (9' - 10')		
PARAMETER		1181-6	7
Lead, mg/kg Mercury, mg		20 <0.03	

Methods: EPA SW-846

### APPENDIX C

#### APPENDIX C

#### References

- 1. Watson, Thomas, 1979. Aquifer Potenial of the Shallow Sediments of the Coastal Area of Georgia in Investigations of Alternative Sources of Ground Water in the Coastal Area of Georgia. Georgia Geologic Survey Open File Report 80-3, pages A1-A30.
- 2. Sonderegger, John L., Lin D. Pollard and C. W. Cressler, 1978. Quality and Availability of Ground Water in Georgia. Georgia Geologic and Water Resources Division, Information Circular 48, 25 pages.
- 3. Georgia Soil and Water Conservation Committee, 1981 Resource Conservation Program and Action Plan, Coastal Soil and Water Conservation District, 39 pages.
- 4. Odom, Ron R., Jerry L. McCollum, Mary Anne Neville and David R. Ettman, 1977. Georgia's Protected Wildlife. Georgia Department of Natural Resources, Game and Fish Division, 51 pages.
- 5. United States Environmental Protection Agency, 1982. Test Methods for Evaluating Solid Waste, Publication No. SW 846.
- 6. Sax, Irving N., 1984. Dangerous Properties of Industrial Materials, 6th Edition Van Nostrand To hold Company, New York, NY.

# APPENDIX D



### Georgia-Pacific Corporation Eastern Wood Products

P. 1 of 2

Manufacturing Division P.O. Box 105603 Atlanta, Georgia 30348 Telephone (404) 521-4000 Teletype (810) 751-1000



MAY 15 1985

May 14, 1985

Mr. Jeffrey M. Williams, Environmental Specialist Environmental Protection Division Remedial Actions Unit 3420 Norman Berry Drive 7th Floor - Scott Hudgens Building Hapeville, Georgia 30354 REMEDIAL ACTIONS UNIT

Re: Past Waste Handling Practice Georgia-Pacific - Savannah Facility

Dear Mr. Williams:

As per our recent conversation, we hope this clarifies the information you require in completing the ERRIS Survey.

When "e' originally submitted information in response to the Waste Management Data Sheet for the above facility, we questioned past managers of the plants, and suppliers of products used in the production. From this information as well as knowledge of the processes we concluded there was no hazardous waste disposed of at this site. However, as a result of our telephone conversation, it is our understanding that you desire information which includes all waste that may have been disposed of at the above site. Therefore, the following information pertains to a chronological history of the site and past solid waste handling activities.

1950 to Present - Georgia-Pacific purchases the existing site from General Plywood and commences manufacturing operations of a hardwood plywood facility. General Plywood built and operated the facility, off and on, from 1946 to 1949.

Early 1960's - Georgia-Pacific commences operations of a resin facility. This plant operated until mid-1970 when it was relocated across town in Port Wentworth.

1965 - Georgia-Pacific constructs and commences operations of a pine plywood facility. This plant ceased manufacturing operation in 1979.

Page Two
Mr. Jeffrey M. Williams
May 14, 1985

Past Waste Handling Practices - Two on-site land disposal areas were utilized by the three operations for discarding solid waste from 1950 to 1979. Typical items that entered the sites consisted of construction materials, scrap iron, tires, conveyor belts, scrap board, bark, fly ash and some waste from the production lines.

If further discussion is required, contact our Atlanta, Georgia Headquarters at 404-521-5080.

Sincerely,

TOM B. STEVENS

. -:

ENVIRONMENTAL ENGINEER

EASTERN WOOD PARODUCTS MANUFACTURING DIVISION

TBS:gr

cc: Messrs: W. L. Duke

A. T. Johnson

R. L. Burns

G. W. Tice

#### PRELIMINARY ASSESSMENT COVER SHEET GEORGIA PACIFIC CORPORATION SAVANNAH SAVANNAH, GEORGIA - CHATHAM COUNTY GAD990741332

#### A. HISTORY OF SITE

The Georgia Pacific Corporation Savannah facility is located on Old Louisville Road in Savannah, Chatham County, Georgia. The Georgia Pacific Corporation acquired this facility from the General Plywood Plant Corporation in 1949. From approximately 1949 to 1956, Georgia Pacific was engaged in producing 3/4 inch birch plywood. According to plant superintendent Mr. Leon Stephenson, no waste was dumped on site before Since 1957 this facility has been manufacturing plywood and prefinished wall paneling. According to Mr. Stephenson, on site disposal of approximately three or four fifty-five gallon drums per week of wastes occurred from 1959 to 1965. These wastes consisted of a mixture of solvents, lacquer paint and base coat materials that were derived from the production of prefinished wall paneling. After 1965 these wastes were mixed in a wood fired boiler and burned as fuel. Since 1980 all solvents and sealers and stains used have been water based materials and are considered non-hazardous. Georgia Pacific has withdrawn its Part A permit and is presently classified as a Small Quantity Generator by the Georgia EPD.

#### P. JUES OF HAZARDOUS MATERIALS

Unknown amounts of solvents and paint wastes have been dumped onto the ground at two locations on site (see topographic map).

#### C. DESCRIPTION OF HAZARDOUS CONDITIONS, INCIDENTS, PERMIT VIOLATIONS

No known permit violations or hazardous incidents have been noted heretofore at the Georgia Pacific Savannah Facility.

#### D. ROUTES FOR CONTAMINATION

There is a potential for local ground water contamination of the surficial ground water since open dumping of solvents occurred on site from 1959 to 1965.

#### E. POSSIBLE AFFECTED POPULATION AND RESOURCES

The nearby residents of Woodlawn Terrace are supplied by a municipal well system located in Garden City, Georgia. There are local drinking water wells located approximately 1 to 1 1/2 miles west of the Georgia Pacific facility.

#### F. RECOMMENDATIONS AND JUSTIFICATIONS

A "low priority" for a Site Inspection is recommended for this facility based on the following conclusions:

Unknown quantities of lacquer based paints and solvents were disposed of on site between 1959 and 1965. A potential for soil contamination exists at the subject site. A potential for local groundwater contamination exists in the areas adjacent to the facility. Conflicting information received from Georgia Pacific personnel warrants a future inspection of this facility.

#### G. REFERENCE TO SUPPORTING DATA SOURCES

Telephone Conversation Memo - April 30, 1985

To: Mr. Leon Stephenson - Georgia Pacific Corporation - Savannah.

From: Jeffrey Williams - Georgia EPD

RE: Pre-RCRA disposal practices at Georgia Pacific Corp. - Savannah.

Telephone Conversation Memo - May 3, 1985

To: Mr. Larry Rodgers - Georgia EPD - Brunswick.

From: Jeffrey Williams - Georgia EPD

RE: Groundwater Supplies.

Georgia EPD "Waste Management Data Sheet"

Trip Report - By Martha Pinne - April 5, 1984.

Georgia EPD Files - Georgia Pacific Corporation - Savannah.

JMW/mcw028.

Attachment 3

# Layne -Atlantic Two water wells drilled for general plywood in 1947.

#### WELL #1

FEET	SOIL
0 - 6 6 - 178 178 - 242 -242 - 256 256 - 265 265 - 568	Yellow Clay Sand and Sandy Blue Marle Sandy Blue Marle Blue Mud Hard Limestone Gray Limestone

#### WELL #2

FEET SOIL	
0 - 2 Top Soil 2 - 25 White Sar 25 - 240 Blue Marl 240 - 254 Blue Marl 254 - 269 Limestone 269 - 274 Limestone	le le w/Shale Rock

Paul N. Clawson Geologist

Appendir D Attachm 4

Date 5/21/86

mer		Ceorgia Facific . So	reen _	Slot
,d	ion	Louisville Rd., Savannah, GA · Se	t From	To
	_	Behind warehouse. We	11 Produce	s GPM at
: <u>i</u> 11	er	FNC, JEN Pt	mp	
11	Use	Geologic information. Wa	ter table	
		Ir	on content	ppm
Dep		Lithology	Mud Loss	Remarks
0	23	Fill.	0- 5 5-10	
2½	3 3/4	Tough, plasic clay.	10-15 15-20	Shuts off mud returns.
3/4	8	Clayey, medium sand.	20 <b>-</b> 25 25 <b>-</b> 30	
8	17岁	Orange to gray-green, tough, sandy clay. Sand fine to medium.	30 <b>-</b> 35 35 <b>-</b> 40	Shuts off mud returns.
7½ 	20 3/	Interbeds very sandy gray clay with coarse sand. Sand increases downward.	40-45 45-50	
3/4	26½	Coarse to very coarse sand.	50 <b>-</b> 55 55 <b>-</b> 60	
63		Gray, soft, slightly sandy clay. Below 37, with trace to few %	60-65 65 <b>-</b> 70	
		fine shell fragments. Below 38½ with increasing coarse sand, never	70-75 75-80	
,	. 50	more than 10%. Below 42, with 1-2% coarse sand.		
0	51 ½	Hawthorn in beds of cemented shell fragments.		
ιţ	60 TD	Hawthorn, silty clay with traces of fine sand.		
-(				

		for Soil Boring 2 Paul N. Clawson Geologist	Appendiz Attachme	
ner		Louisville Rd., Savannah, GA. S	et From	Slot
111 11		FNC, JEM P Geologic Information. W	ump ater table	
De p	th To	Lithology	Mud Loss	
0	45	Tough, gray to orange, sandy clay. Sand very fine.	0- 5 5-10 l	5 gals. Shuts off mud returns
凌	16½	Red-stained light gray, very sand clay. Sand fine to medium.	15-20	
13	203	Coarse sand with few thin beds of gray sandy clay.	20 <i>-</i> 25 25 <i>-</i> 30	
) <del>}</del>	25	Coarse sand with 10-20% orange to gray sandy clay.	30-35 35-40	
;		Gray sandy clay with 40-60% interbeds of coarse to medium sand wit		
<b>\</b>	30½	few % shell fragments.	50-55 55-60	·
į,	31 ½	Fine to very coarse sand.	60-65 65-70	
ļ,	35	Hawthorn formation; 10-20% shell fragments. Olive-green silty,	70 <i>-</i> 75 75 <i>-</i> 80	Drove l ft. into Hawtho; with 100 blows.
		sandy clay.		
		•		
1		·		
•-•			17	

#### RECORD OF TELEPHONIC CONVERSATION

	Site Investigation Program	
Routing: Mike All	red Milefleul & 4-86 Date: 8/	1/86
<u>57</u>	<u>H.A.S.</u> Time: 9:5	5 a.m. p.m.
File: Georgia	Pacifix Corp. Somenah	
Party Spoken To: Mr	Paul N. Clauson Title: Pro	P. Geologist
Agency/Company:	None	···
Adaress:	City:Savany	ah
Telephone Number:	305) 49/ - 4538 - State/Zip: 60	expla
Subject (file name):	Georgia Parific Corp. Savanah	
Summary of Call:	- called Mr. Clawson in Fact L	asterdale Fla
	gether information on shallow is	
	stated that she thought that be was the	
	Shallin wells . Iask . Mr. clause	
	feet or so that's are used for d	
3 miles at the	e Georgia Partic plant Mr. Claw	son said that
he knew of the	Ge Pac plant and that he knew of	3 private
shallow wells	within 3 miles of the plant. He	stated that
	nger remember the name of the res	
	ed that he drilled the wells himself.	
Actions Required:		
	<u> </u>	
Signature:	Whalker 8/3/86	
Follow-up Responses/Ad	Iditional Comments:	
	·	
	·	······································
Signature:	Date:	
SIP-2	AQ	5/86

48

5/86

# **_RECORD OF TELEPHONIC CONVERSAT →**

# Site Investigation Program

Routing: Levewed by Mile 4	Mul 7/16/86 Date: 7/14/86
<u> </u>	Time: 320 a.m. p.m.
File: George Paritie Com	
rares spoken to: Wike Milan	Title: <u>Petty Officer</u>
Agency/Company: U.S. Coas:	t Guard
Aqaress:	City: <u>Savaunah</u>
Telephone Number: (9/2)944 -	4353 State/Zip: Georgia.
Subject (file name): Congin lo	
	. Milan to inquire as to the effect
	e Maker's Conal near the site.
	was familiar with the canel and
	e as for up stream as I-95. The
Site is between I-95 a	nd the Savagach River.
	•
Actions Required:	
-	
	· · · · · · · · · · · · · · · · · · ·
Signature: Tue Walken	7/11/01
- Jana Colonia	-114/86
Follow-up Responses/Additional Comme	nts:
Signature:	Date:

# RECORD OF TELEPHONIC CONVERSATION

# Site Investigation Program

Routing:	5'I	Review	el by Me	hefile	L Date:_	7/21/	86
					Time:_	2:44	a.m./p.m
File:	Congila	Pacific	Corp S	ANGURA	h	•	Superintenden
Party Spoken To	: MA	Lean	tephenso	19	Title:	Plant	Superintenden
Agency/Compa	ny:	Cary	Pact		10		
Address:	O.O. B	ex 367	Old Louise	://e // C	ity:S	avannah	
Telephone Nu				s	tate/Zip:	George	12 3/498
Subject (file m							
Summary of Call	:_A	Conferen	ce call	betwee	en Rick	Horder-	Lawyer Go. Por.)
							Pol) and Ster
							e request
_of Ger	rg in	acitic	so that	T Co	uld ask	Leon	tephenson
about the	cite	Mr. S	tephenson	stated	that 2	3 or 4 d	cums of
Liquid or	Sludge	wastes	werequ	nembed	1959-	1965. T	15 drumed
waste w	es Sin	ply pour	ed out on	I the	ground.	's areas	I and I accord
to Mr. S	tephe	Son He	also st	ated the	at no	& scale	dans
(All or po	athy	Aull) u	ere burie	din	rn le	A anca	2
Actions Require	ed:						
Signature:		w Wa	ther_	-	7/	1/2/	agentum iso najaga kommandapadi
rollow-up Respo	onses/Ad	ditional (	Comments:	<del></del>		<i>'</i>	<del></del>
		. <u></u>					
		<del></del>				<del></del>	<del></del>
Signature:					Date:		
SIP-2							5/86

50

CASTIAL ROUTING

7F1 F C CN

BY: Williams, J OF: GA. E.P.D. FILE# GAD 990741332

PERSON TALKED WITH: Mr. Leon Stephenson-

PHONE # 912-964-2230

SUBJECT: Pre RLRA disposal practices at the Georgia Pucific Lorp-Surannah, GA.

DETAILS OF CONVERSATION

According to Mr. Stephenson, Georgia Pecific
began operations in 1949, Plywood was produced
from 1949 to 1956. No on site imains
occurred before 1959, Hardwood puncting was
produced from 1957 to the present dute, Solvents
and lacquer paint base coat materials were disposed
on site from 1959 to 1965 in toward
distinct areas according to Mr. Stephenson. These
wisks were openly dumped onto the soil
and allowed to percolate through All processes
from 1950 to the present dute use water based
materials and are countrally non-hazardous.

0 500	POT	ENTIAL HAZAR	DOUS \	WASTE SITE			FICATION 02 SITE NUMBER	
<b>SEPA</b>	PART 1 - SITE	SITE INSPECT LOCATION AND			ATION	GA	D99074	
II. SITE NAME AND LOCA	TION							
01 SITE NAME (Legal common or o	description name of site)			T, ROUTE NO., OR SP				
Georgia Pacific	c Corp. Savannah	<b></b>		Box 367,		sville		-100.001.0
O3 CITY				05 ZIP CODE	06 COUNTY	_	O7COUNT COOE	DIST
Savannah		10 TYPE OF OWNERSH	GA Proces on	31498	Chathan	1		
32" 05" 560"	081_10_483"_		O B. FED	DERAL		D. COUNTY G. UNKNOW		IPAL
HI. INSPECTION INFORM  Of DATE OF INSPECTION	ATION 02 SITE STATUS	03 YEARS OF OPERAT	ION					
11 / 21/ 85 MONTH DAY YEAR	D ACTIVE		NAMAG YEA	1 1965 R ENDING YEAR		UNKNOWN		
04 AGENCY PERFORMING INSP	•							
		ame of firm)		JNICIPAL 🗆 D. M	IUNICIPAL CONT	RACTOR	(Name of Am	<del>,                                    </del>
AC E. STATE G F. STATE	CONTRACTOR	ame or home TOS TITLE	G. OT	HEH	(Specify)		I 08 TELEPHO	45.10
		1 —	nn+al	Specialis			404)65	
Steve Walker		10 TITLE	zii La i	Special is	11 ORGANIZA		12 TELEPHO	
Johnny Morgan		Environm	en ta l	Specialis	t GA EI	סי	404) 65	
-							( )	
							( )	
-							( )	
			<del></del>	<del> </del>			( )	
13 SITE REPRESENTATIVES INT	ERVIEWED	14 TITLE	1	5ADDRES8		<del></del>	16 TELEPHO	NE NO
Mr. Tom Steven	ıs	Env. Engi	neer	P.O. Box 1	105603, A	tlanta	(404 5	21-508
Mr. Gerald Tic	:e	Chief Env.	Eng.	P. 0. Box	105603,	Atlanta	404 5	21-400
Mr. Lawrence O	twell	Env. Engi	neer	P. 0. Box	105603,	Atlanta	404 5	21-508
							( )	
							( )	
		-					( )	
17 ACCESS GAINED BY (Check one)  M PERMISSION  WARRANT	0820 hrs.	heavy		, high wind	ds			
IV. INFORMATION AVAIL	ABLE FROM							
01 CONTACT		02 OF (Agency/Organi	relion)				03 TELEPHONE	
Mr. Tom Stever	15	Environmer		ngineer	07 TELEPHONE	1	404) 52	1-5080
Steve Walker	TOTAL HOUSE, O HOUSE POTTE	GA EPD		Inv. Pro			8	1 86
EPA FORM 2070-13 (7-81)								

&EF	PA	PC		RDOUS WASTE TION REPORT E INFORMATION	SITE	01 STATE 02 SITE I	
I. WASTE ST	TATES, QUANTITIE	S, AND CHARACTE	RISTICS		<del></del>		
E. A. SOLID L. E. SLURRY must be		s of waste quentilles to morbendent)	Y AT SITE  PARTY UNBIT CHARACTERISTICS (CNOCK BIT HAS BODNY)  PARTY UNBIT CHARACTERISTICS (CNOCK BIT HAS BODNY)  [X A. TOXIC			E G K. REACTIVE	
II. WASTE T	YPE		<del></del>	<del></del>		<del></del>	
CATEGORY	SUBSTA	NCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE		<del></del>			<del></del>	
OLW	OILY WASTE					<del> </del>	
SOL	SOLVENTS	<del></del>	um len au m		taluana	M.I.K. oth	ens (unkno
rso	PESTICIDES		unknown	<del> </del>	minene, i	Tall a Name Ubil	ET 2/ MIIVIIA
OUC		NIC CHEMICALS	<del></del>	<del> </del>		<del></del>	
юс	INORGANIC CH		<del> </del>	<del> </del>	<del></del>		
ACD	ACIDS		<del></del>	<del> </del>			
BAS	BASES		<del></del>				
MES	HEAVY METAL	s		<del>                                     </del>			
		See Accendix for most freque	THE STATE OF THE S	1			
CATEGORY	02 SUBSTA		03 CAS NUMBER	04 STORAGE/DISP	OSAI METHOD	05 CONCENTRATION	06 MEASURE OF
	<del> </del>		108-88-3	released on		1-32,000	mg/kg
SOL toluene			<del></del>	T		1-26,000	mg/kg
SOL n	metriyi ISO	butyl keton	100-1-01	released on	to ground	1 20,000	פיי יפייי
		e e e e e e e e e e e e e e e e e e e	<del></del>	<del> </del>	· · · · · · · · · · · · · · · · · · ·		<b> </b>
			_}	ļ	- <del>,</del>		<del> </del>
				<u> </u>	i	L	
		***************************************	4	Į			<b></b>
				1			T
			<del> </del>	<u> </u>	·	<del></del>	<u> </u>
			1	<del> </del>			
				<b>†</b>			<del> </del>
	, , , , , , , , , , , , , , , , , , ,				<u> </u>		1
			<del></del>	<del> </del>		<del></del>	<del>                                     </del>
				L		L	<u> </u>
V. FEEDSTO	CKS (See Appendix for CA	S Numbers)	<del></del>	<del></del>	<u>-</u>		<b>-</b> .
CATEGORY	01 FEEL	STOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTO	OCK NAME	02 CAS NUMBER
FOS				FDS			
FDS				FDS			
FDS				FDS	"		
FDS				FDS	<del></del>		
		V 104e specific references e		<del></del>			

EPA FORM 2070-13(7.81)

STATE FILES ATTACHED

# POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

<b>SEPA</b>		NSPECTION REPORT HAZARDOUS CONDITIONS AND INC	IGA 109	90741332
IL HAZARDOUS COND	ITIONS AND INCIDENTS			
01 X A. GROUNDWATE 03 POPULATION POTER	R CONTAMINATION 0 100	02 & OBSERVED (DATE: 11-21-85 04 NARRATIVE DESCRIPTION	POTENTIAL	☐ ALLEGED
Potential f	from liquid wastes, ion in shallow groun	poured out on the ground d water at disposal area	i. Documented o	hromium
01 (3 B. SURFACE WATE 03 POPULATION POTEN	ER CONTAMINATION ITIALLY AFFECTED:	02 ET OBSERVED (DATE:	_) D POTENTIAL	☐ ALLEGED
-				
01 [] C. CONTAMINATE 03 POPULATION POTES	ON OF AIR NTIALLY AFFECTED:	02 C) OBSERVED (DATE:	)   POTENTIAL	□ ALLEGED
01 (1) D. FIRE/EXPLOSIN	/E CONDITIONS ITIALLY AFFECTED:	02 [] OBSERVED (DATE:	) □ POTENTIAL	□ ALLEGED
		·		
01 S E. DIRECT CONT. 03 POPULATION POTEN	ACT ITIALLY AFFECTED:	02 OBSERVED (DATE:	□ POTENTIAL	☐ ALLEGED
01 IXF. CONTAMINATE 03 AREA POTENTIALLY	AFFECTED:5-10	02 1X OBSERVED (DATE 1-21-85 04 NARRATIVE DESCRIPTION	_) DOTENTIAL	D ALLEGED
Toluene a	nd methyl isobutyl k	etone confirmed in soil	s in 1 of 2 dis	posal areas
01% G. DRINKING WAT 03 POPULATION POTEN From liquid	ITIALLY AFFECTED. UT LUU	02 © OBSERVED (DATE: 04 NARRATIVE DESCRIPTION ed out onto the ground 1	_)	C ALLEGED
				<b>-</b>
01 () H. WORKER EXP 03 WORKERS POTENT	OSURE/INJURY  ALLY AFFECTED:	02 ( ) OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	) D POTENTIAL	□ ALLEGED .
01 (3), POPULATION EX 03 POPULATION POTER	POSURE/INJURY ITIALLY AFFECTED:	02 CI OBSERVED (DATE:	_) D POTENTIAL	□ ALLEGED

# POTENTIAL HAZARDOUS WASTE SITE

I IDEN	TIFICATION
OI STATE	02 SITE NUMBER D990741332

PART 3 - DESCRIP	SITE INSPECTION REPORT PTION OF HAZARDOUS CONDITIONS AND INCIDENTS	GA	D990741332
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 T J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
01 LL K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION Include name(s) of species!	02 C. OBSERVED (DATE:)	□ POTENTIAL	C) ALLEGED
· <u>-</u>			
01 13 E CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 (J OBSERVED (DATE:)	C POTENTIAL	C) ALLEGED
01 X M. UNSTABLE CONTAINMENT OF WASTES (Spiffle Rungti Standing Indust, Lealing driving) 03 POPULATION POTENTIALLY AFFECTED: 1	02 [] OBSERVED (DATE) -100 04 NARRATIVE DESCRIPTION		ALLEGED
	e facility indicated that approxima containing solvents) were poured ou	tely 2-4 t on the	drums of ground weekly
01 () N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE)	D POTENTIAL	C ALLEGED
01 (3 O CONTAMINATION OF SEWERS, STORM DI 04 NARRATIVE DESCRIPTION	RAINS, WWTPs 02 (7 OBSERVED (DATE:)	POTENTIAL	D ALLEGED
01 E. P. ILLEGAL UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 t 1 OBSERVED (DATE)	☐ POTENTIAL	□ ALLEGED
05 DESCRIPTION OF ANY OTHER KNOWN, POTEN	ITIAL. OR ALLEGED HAZARDS	<u></u>	***************************************
III. TOTAL POPULATION POTENTIALLY AFFE	стер: 0-100	<u></u>	
IV. COMMENTS			
	•		
V. SOURCES OF INFORMATION - 19 Specific interest	icos. P. ∪ , state Mes. semple Amayan Teborist		
STATE FILES ATTACHED			

EPA r ORM 2076-13 (7 61)

# n PENDIX E

SEPA				S WASTE SITE		1. IDENTIFICATION
VETA	S. PART 4 - PERMIT	ITE INSP AND DES			I NOI	GA 0990741532
II. PERMIT INFORMATION						
01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE ISS	SUED	04 EXPIRATION DATE	05 COMMENTS	
TXA. NPDES	GA0003051	6/15/	84	5/31/89	tested	for BOD, pH, Sus.
E B UIC	- 4.100000	,,			solids e	very 2 months
X.C. AIR	2436-025-8221	Ln -		_	bag hous	e sanderdust, glues
OD RCRA	7-30-023-0221				limit of	.271bs./10 ⁶ BTU
E. RCRA INTERIM STATUS						
© F. SPCC PLAN						
XIG. STATE Specify	025-0019	1975	,	_	ground w	ater withdrawal of
CTH. LOCAL Specify)					100,000	gpd from 2 wells.
:11. OTHER (Specifie)						
J.J. NONE						
III. SITE DESCRIPTION						
01 STORAGE/DISPOSAL (Check at that apply)	02 AMOUNT 03 UNIT OF	MEASURE	04 TR	EATMENT (Check all met a	DOTy)	05 OTHER
E! A. SURFACE IMPOUNDMENT			<b>□ A</b> .	INCENERATION		
CI B. PILES			□ <b>B</b> .	UNDERGROUND INJE	ECTION	A. BUILDINGS ON SITE
: J C. DRUMS, ABOVE GROUND	<del></del>		□ C.	CHEMICAL/PHYSICA	L	1
D. TANK, ABOVE GROUND				BIOLOGICAL		
[] E. TANK, BELOW GROUND	<del></del>		_	WASTE OIL PROCES	_	06 AREA OF SITE
☐ F. LANDFILL ☐ G. LANDFARM	<del></del>			SOLVENT RECOVER		6 <del>+</del>
ST. OPEN DUMP app	cox. 312 yds	3		OTHER RECYCLING/	RECOVERY	(Acres)
DI OTHER			IJĦ.	OTHER	City)	!
(Specify) 07 COMMENTS				<u> </u>		
Liquid wastes poure quantity = 4 drums = 312 tons	ed out onto grou per week, for ( s or cubic yards	5 years	S		(4 drums	s = 1 ton) or 1 yd ³
W 0017 1110717	·····	<del></del>		····		
IV. CONTAINMENT  U1 CONTAINMENT OF WASTES (Chick cont)	<del></del>	······				
1] A. ADEQUATE, SECURE	LI B. MODERATE	C C. INA	DEOL	JATE, POOR	LY D. INSECU	RE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS, B						
Long-time employee of liquid wastes were per Pacific property.	f facility state	ed tha the gr	t fo	orm 1959-19 d weekly in	65, appro 2 dispos	ox. 4 drums of al areas of GA
V. ACCESSIBILITY		<del></del>			•	
of Waste Easily Accessible (1) yes of Comments Area is fenced and t	he entrance is	guarde	d			
VI. SOURCES OF INFORMATION CARRIE	ecide remnem es le gi state des sample	andhals report	81			
STATE FILES ATTACHED				-		
P4 FORM 2070 13 (7 & 1)				<del></del>		

	POTE	ENTIAL HAZAR	DOUS W	ASTE SI	re		NTIFICATION
SEPA		SITE INSPECT				O1 ST	102 SITE NUMBER D990741332
	PART 5 - WATER	I, DEMOGRAPHI	C, AND EI	NVIRONM	ENTAL DATA	Lun	10330171302
II. DRINKING WATER SUPPLY							
O1 TYPE OF DRINKING SUPPLY (Cruck as moreowe)		02 STATUS				03	DISTANCE TO SITE
SURFACE	WELL	ENDANGERE	_		MONITORED		<b>1</b>
COMMUNITY A	8. CX D. CX	A. 🗆 D. 🖸			C.CX F.CX	A. B.	1/5 (mi)
III. GROUNDA/ATER							
01 GROUNDW ATER USE IN VICINITY (Check	one)		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·
[] A ONLY SOURCE FOR DRINKING   D. NOT USED, UNUSEABLE (Climited other sources available)   COMMERCIAL, INDUSTRIAL, IRRIGATION   D. NOT USED, UNUSEABLE (Climited other sources available)   COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)							
02 POPULATION SERVED BY GROUND WA	TER 18540 W/	<u>i</u> n 3 mi.	03 DISTANO	E TO NEARES	ST DRINKING WATER \	VELL	1/10 (mi)
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	OUNDWATER FLOW	06 DEPTH TO	OAQUIFER	OF POTENTIAL YIEL	٥	08 SOLE SOURCE AQUIFER
20 _(m)	unknowr	n at preser	t ° 20	(ft)	J.000£	(apd)	□ YES X: NO
09 DESCRIPTION OF WELLS (in: buding useage, uepin, and keation newtive to population and buildings)  3 shallow wells are known to exist in a 3 mile radius of the site							
10 RECHARGE AREA			11 DISCHAR	GE AREA			
X: YES   COMMENTS   E: NO			_ YES M NO	COMMENT	rs		
IV. SURFACE WATER							
01 SURFACE WATER USE (Check one)							
☐ A. RESERVOIR. RECREATION ☐ B. IRRIGATION, ECONOMICALLY ☐ C. COMMERCIAL, INDUSTRIAL Ø D. NOT CURRENTLY USED DRINKING WATER SOURCE IMPORTANT RESOURCES							
02 AFFECTED/POTENTIALLY AFFECTED B	ODIES OF WATER			<del></del>			<del></del>
NAME:	JOES OF WATER				AFFECTED		DISTANCE TO SITE
	1		•	-			1/2 (mi)
<u>Pipe Maker's Can</u>	<u>aı</u>					٠	
***				·····			(mi)
V. DEMOGRAPHIC AND PROPERTY INFORMATION							
GI TOTAL POPULATION WITHIN (HOU		.5 min. USC	S TOPO	))	DISTANCE TO NEARE	ST POPL	JLATION
ONE (1) MILE OF SITE TV  A. 2075  NO CF PERSONS	NO (2) MILES OF SITE  8812 - NO. OF PERSONS		MILES OF 540 ±		1	/10	(mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 04 DISTANCE TO NEAREST OFF-SITE BUILDING							
1/10							
05 POPULATION WITHIN VICINITY OF SITE. Provide narrative description of nature of population within vicinity of site. e.g., rural, village, densely populated when area!							
Areas within 1 mile north, east and west of the site are uninhabited. Occupied dwellings exist approximately 1/10 mile south of the site. The Woodlawn Terrace and Sharon Park Subdivisions exist south and southeast of the site. Occupied residences are scattered along Old Louisville Road which is south and southwest of the site.							

EPA FORM 2070-13 (7-81)

	· · · · · · · · · · · · · · · · · · ·	HAZADOONS WASTE	CITE	I. IDENTIFICATION
<b>SEPA</b>		HAZARDOUS WASTE NSPECTION REPORT GRAPHIC, AND ENVIROI		O1 STATE O2 SITE NUMBER GA D990741332
VI. ENVIRONMENTAL INFORI				
01 PERMEABILITY OF UNCATURATED	D ZONE (Check one) - 0118 cm/sec - 太下B, 1014 1016 cm/	sec □ C. 10 ⁻⁴ - 10 ⁻³ cm/	/sec D. GREATER T	THAN 10 ⁻³ cm/sec
02 PERMEABILITY OF BEDROCK (Che	rck une:			
: A IMPE	RMEABLE [3 8 RELATIVELY IMP] an 10 ⁻⁶ chisec (10 ⁻⁴ - 10 ⁻⁶ chisec	ERMEABLE L) C RELATIVEL	Y PERMEABLE IN D. Y	VERY PERMEABLE Greater Inan 10 ⁻² cm/sec)
DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZO		_	
240 (m)	1 - 1	_(n) 5-6		
8 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	OB SLOPE SITE SLOPE	DIRECTION OF SITE SL	OPE   TERRAIN AVERAGE SLOPE
4(in)	3.5(ir	1 1	NW NW	1-2 %
SITE IS IN 100 approx	LOODPLAIN	ON BARRIER ISLAND, COASTA	L HIGH HAZARD AREA, I	RIVERINE FLOODWAY
1 DISTANCE TO WETLANDS (5 acre m	inimum)	12 DISTANCE TO CRIT	ICAL HABITAT (of endangered	species)
ESTUARINE	OTHER	Į	10	(mi)
A(mi)	B(mi)	ENDANGERE	D SPECIES: HUM	npback Whale
3 LAND USE IN VICINITY				
COMMERCIAL/INDUS	TRIAL FORESTS, OR	S: NATIONAL/STATE PARKS, I WILDLIFE RESERVES  1/10 (mi)	AGRIC PRIME AG LANG	CULTURAL LANDS AG LAND
•	ON TO SURROUNDING TOPOGRAPHY			
	sed of 2 disposal ar	eas) exists on	generally fla	at, level land in
		·		<b>-</b> .
				·
VII. SOURCES OF INFORMAT	ION (Cita specific references, e.g., state Mes. sam	ple analygis, raports)		
CTOSE SILES				

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		And the second of the second o		
<b>≎EPA</b>		OTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT ART 6 - SAMPLE AND FIELD INFORMATION		CATION SITE NAMER 1990741332
II. SAMPLES TAKEN		THE STANSFEE AND FREED IN CONTRACTOR	,	
SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO		03 ESTIMATED DATE PESULTS AVAILAB
GROUNDWATER	2	EPD LAB		ATTACHED
SUBEACT THESE				
WASTE	1	EPD LAB		ATTACHED
AIR			· · · · · · · · · · · · · · · · · · ·	
RUNOFF : -				
SPILL				
SOIL	46	EPD LAB and Sav. Labs(contrac	t lab for	ATTACHED
VEGETATION		GA. Pac	ific)	
OTHER				
III. FIELD MEASUREMENT	S TAKEN			
01 TYPE	02 COMMENTS			
			······································	
· · · · · · · · · · · · · · · · · · ·				
IV. PHOTOGRAPHS AND I	MAPS			·
OT TYPE & GROUND & AE	ERIAL	02 IN CUSTODY OF EPD Site-Investigat	ion Program	n
O3 MAPS 04 LOC X YES EF	ATION OF MAPS D - Site Invest	igation Program files		
V. OTHER FIELD DATA CO	CLLECTED .Provide naviative des	C(\$\dagger\tau\mathbf{n})		
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		<del> </del>
			÷	
			•	

VI. SOURCES OF INFORMATION (Craspucing rateron .es. + 2. state time, campilianalysis, reprints)

STATE FILES ATTACHED

EPA+ 26M 2070-1317-811

C TDA	· 1		ZARDOUS WASTE SITE PECTION REPORT		2 SITE NUMBER
10 mm 3 m			VNER INFORMATION	Leal	0990711700
II. CURRENT OWNER(S)			PARENT COMPANY (# Application		
OI NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
Georgia Pacific Corp		D990741332	SAME		
Georgia Pacific Corp		04 SIC CODE	2 SAME 10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
P. O. Box 105603				· · · · · · · · · · · · · · · · · · ·	1
05 CITY	1 -	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
Atlanta OI NAME	lgA	30348 102 D + B NUMBER	OB NAME		09 D+B NUMBER
					= = :,==.,
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #. etc.)		11 SIC CODE
		1	1		
05 CITY	08 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 0+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P O Box, RFD +, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, oc.)		I11SKC COD€
		3.0000	TO GITTURE I PROGRESSO (F.V. BOSK, RPU F. 910.)		
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
	_1_				
01 NAME		02 D+3 NUMBER	08 NAME		09D+8 NUMBER
		<u> </u>			
O3 STREET ADDRESS (P.O. BOX. RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Bex, RFD P. etc.)		11 SIC CODE
05 CITY	108 STATE	07 ZIP CODE	12 CITY	113 STAYS	(1 The Good
			1	1.00.7	<del>.</del>
III. PREVIOUS OWNER(S) (List most recent to	urst) .	·	IV. REALTY OWNER(S) (# applicative; in	it most recent first)	
01 NAME		02 0+8 NUMBER	01 NAME		02 D+8 NUMBER
General Plywood					
		04 SIC CODE	03 STREET ADDRESS (P.O. Son, RFD #, erc.)		04 SIC CODE
Old Louisville Road	DESTATE	107 ZIP CODE	05 CITY	OR STATE	07 ZIP CODE
Savannah	GA	31498			
OI NAME		02 D+B NUMBER	01 NAME	<del></del>	02 D+B NUMBER
		<u> </u>			
03 STREET ADDRESS (P.O. BOX, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD F. etc.)		04 SIC CODE
05 CITY	08 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP COD€
					-
O1 NAME		02 D+8 NUMBER	01 NAME	I	02 D+8 NUMBER
03 STREET ADDRESS IP O Box, NFO + sic 1 .		04 SIC CODE	03 STREET ADDRESS (P.O. Bost, RFD F. etc.)		04 SIC CODE
OSCILY	OSTATE	0/ ZIP CODE	U5 CITY	IOS STATE	07 ZIP CODE
					- <del></del>
V. SOURCES OF INFORMATION (Cite se	pecific references.	. u g , stere files, semple anal	lyers, reports)		·
		· · · · · · · · · · · · · · · · · · ·			<del></del>
STATE FILES					
			•		
PA FORM 2070-13 (7-81)			<del></del>		<del></del>

04 SIC CODE   12 STREET ADDRESS (P.O. Box. RFD P. BIC)   13 SIC CODE   13 STREET ADDRESS (P.O. Box. RFD P. BIC)   13 SIC CODE   14 CITY   15 STATE   16 ZIP CODE   14 CITY   15 STATE   16 ZIP CODE   17 STATE   16 ZIP CODE   18 STATE   16 ZIP CODE   19 STREET ADDRESS (P.O. Box. RFD P. BIC)   13 SIC CODE   12 STREET ADDRESS (P.O. Box. RFD P. BIC)   13 SIC CODE   12 STREET ADDRESS (P.O. Box. RFD P. BIC)   13 SIC CODE   14 CITY   15 STATE   16 ZIP CODE   14 CITY   15 STATE   16 ZIP CODE   15 STATE   16 ZIP CODE   17 STREET ADDRESS (P.O. Box. RFD P. BIC)   13 SIC CODE   15 STATE   16 ZIP CODE   15 STATE   16 ZIP CODE   15 STATE   16 ZIP CODE   17 STREET ADDRESS (P.O. Box. RFD P. BIC)   13 SIC CODE   15 STATE   16 ZIP CODE   15 STATE   16 ZIP CODE   15 STATE   16 ZIP CODE   17 STREET ADDRESS (P.O. Box. RFD P. BIC)   15 STATE   16 ZIP CODE   17 STREET ADDRESS (P.O. Box. RFD P. BIC)   15 STATE   16 ZIP CODE   17 STREET ADDRESS (P.O. Box. RFD P. BIC)   15 STATE   16 ZIP CODE   17 STREET ADDRESS (P.O. Box. RFD P. BIC)   15 STATE   16 ZIP CODE   17 STREET ADDRESS (P.O. Box. RFD P. BIC)   15 STATE   18 ZIP CODE   17 STREET ADDRESS (P.O. Box. RFD P. BIC)   15 STATE   18 ZIP CODE   17 STATE	SITE INSPECT				RDOUS WASTE SITE TION REPORT FOR INFORMATION	SA STATE	0990741332	
03 STREET ADDRESS   P O Bin. Nº O P. Nº O   13 SIG CODE   12 STREET ADDRESS   P O, Bin. Nº O P. Nº O   13 SIG CODE   14 CITY   15 STATE   19 ZIP CODE   17 STREET ADDRESS   P O BOX. RFO P. NO.   17 STATE   19 ZIP CODE   12 STREET ADDRESS   P O BOX. RFO P. NO.   13 SIC CODE   12 STREET ADDRESS   P O BOX. RFO P. NO.   13 SIC CODE   12 STREET ADDRESS   P O BOX. RFO P. NO.   13 SIC CODE   14 CITY   15 STATE   19 ZIP CODE   13 SIC CODE   12 STREET ADDRESS   P O BOX. RFO P. NO.   13 SIC CODE   13 SIC CODE   14 CITY   15 STATE   19 ZIP CODE   15 STATE   18 ZIP CODE   17 STREET ADDRESS   P O BOX. RFO P. NO.   15 STATE   18 ZIP CODE   17 STREET ADDRESS   P O BOX. RFO P. NO.   13 SIC CODE   14 CITY   15 STATE   18 ZIP CODE   17 STATE   18 ZIP CODE   18 STATE   18 ZIP CODE   19 STATE   19 ZIP CO		R (Provide if different from	n awner)		OPERATOR'S PARENT COMPANY IN SO	picable,		
13 STATE   16 ZIP CODE   14 CITY   15 STATE   16 ZIP CODE   14 CITY   15 STATE   16 ZIP CODE   15 STATE   16 ZIP CODE   16 CITY   15 STATE   16 ZIP CODE   17 CITY   18 STATE   16 ZIP CODE   17 CITY   18 STATE   18 ZIP CODE   18 CITY   18 STATE   18 ZIP CODE   19 CITY   18 STATE   18 ZIP CODE   19 CITY   18 STATE   18 ZIP CODE   19 CITY   19 C	OT NAME			02 0+B NUMBER	10 NAME		11 D+B NUMBER	
OS YEARS OF OPERATION OB NAME OF OWNER  III. PREVIOUS OPERATORS' PARENT COMPANIES (Facoucades)  D1 NAME	03 STREET ADDRESS (P.O. Box	na. RFD ≠, <b>etc</b> }		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFO P. etc.)		13 SIC CODE	
III. PREVIOUS OPERATOR(S)	OS CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE	
D1 NAME  02 D+8 NUMBER  10 NAME  11 D+8 NUMBER  03 STREET ADDRESS (P.O. Box. APD P. Bic.)  04 SIC CODE  12 STREET ADDRESS (P.O. Box. APD P. Bic.)  13 SIC CODE  05 CITY  06 STATE OT ZIP CODE  14 CITY  15 STATE 16 ZIP CODE  07 STREET ADDRESS (P.O. Box. APD P. Bic.)  10 NAME  11 D+8 NUMBER  10 NAME  11 D+8 NUMBER  11 D+8 NUMBER  11 D+8 NUMBER  11 D+8 NUMBER  12 STREET ADDRESS (P.O. Box. APD P. Bic.)  13 SIC CODE  14 CITY  15 STATE 16 ZIP CODE  17 STATE 16 ZIP CODE  18 STATE 17 ZIP CODE  19 STATE 18 ZIP CODE  10 NAME  11 D+8 NUMBER  11 D+8 NUMBER  11 D+8 NUMBER  12 STREET ADDRESS (P.O. Box. APD P. Bic.)  13 SIC CODE  14 CITY  15 STATE 16 ZIP CODE  17 STREET ADDRESS (P.O. Box. APD P. Bic.)  19 STATE 16 ZIP CODE  11 D+8 NUMBER  10 NAME  11 D+8 NUMBER  11 D+8 NUMBER  11 D+8 NUMBER  12 STREET ADDRESS (P.O. Box. APD P. Bic.)  13 SIC CODE  14 CITY  15 STATE 16 ZIP CODE	OS YEARS OF OPERATION	09 NAME OF OWNER						
03 STREET ADDRESS (P.O. Box, RFD #, etc.)  104 SIC CODE  112 STREET ADDRESS (P.O. Box, RFD #, etc.)  113 SIC CODE  114 CITY  115 STATE 16 ZIP CODE  110 NAME  110 NAME  111 D+8 NUMBER  101 STREET ADDRESS (P.O. Box, RFD #, etc.)  113 SIC CODE  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  13 SIC CODE  14 CITY  15 STATE 16 ZIP CODE  17 STREET ADDRESS (P.O. Box, RFD #, etc.)  17 STATE 16 ZIP CODE  18 STATE 107 ZIP CODE  19 STREET ADDRESS (P.O. Box, RFD #, etc.)  10 NAME  11 D+8 NUMBER  10 NAME  11 D+8 NUMBER  11 D+8 NUMBER  11 D+8 NUMBER  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  13 SIC CODE  14 CITY  15 STATE 16 ZIP CODE  15 STATE 16 ZIP CODE	III. PREVIOUS GPERATE	OR(S) /List most recent firs	st, pravide del	ly if different from owner!	PREVIOUS OPERATORS' PARENT COM	IPANIES (	apolicable)	
05 CITY	O1 NAME	<del></del>		02 D+B NUMBER	10 NAME		11 D+8 NUMBER	
08 YEARS OF OPERATION   09 NAME OF OWNER DURING THIS PERIOD   11 D+8 NUMBER   10 NAME   11 D+8 NUMBER   10 NAME   11 D+8 NUMBER   10 NAME   13 SIC CODE   12 STREET ADDRESS (P.O. 801, RFD #, 810.)   13 SIC CODE   15 STATE   16 ZIP CODE   10 NAME   10 NAME   10 NAME   11 D+8 NUMBER   13 SIC CODE   12 STREET ADDRESS (P.O. 801, RFD #, 810.)   13 SIC CODE   13 SIC CODE   14 CITY   15 STATE   16 ZIP CODE   15 STATE   16 ZIP CODE   1		7π, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box RFD #. etc.)	<del></del>	13 SIC CODE	
01 NAME   02 D+B NUMBER   10 NAME   11 D+B NUMBER   10 NAME   11 D+B NUMBER   13 SKC CODE   12 STREET ADDRESS (P. O. Boz., RFD #, etc.)   13 SKC CODE   15 STATE   16 ZIP CODE   17   15 STATE   16 ZIP CODE   17   18 NUMBER   10 NAME   11 D+B NUMBER   10 STREET ADDRESS (P. O. Boz., RFD #, etc.)   13 SKC CODE   12 STREET ADDRESS (P. O. Boz., RFD #, etc.)   13 SKC CODE   12 STREET ADDRESS (P. O. Boz., RFD #, etc.)   13 SKC CODE   14 CITY   15 STATE   16 ZIP CODE   15 STATE   15 ZIP CODE	OS CITY		OG STATE	O7 ZIP CODE	14 CITY	15 STATE	18 ZIP CODE	
03 STREET ADDRESS (P. O. Box, RFD *, etc.)  04 SIC CODE  12 STREET ADDRESS (P. O. Box, RFD *, etc.)  13 SIC CODE  15 STATE 16 ZIP CODE  16 STATE 16 ZIP CODE  17 STREET ADDRESS (P. O. Box, RFD *, etc.)  18 STATE 16 ZIP CODE  19 NAME  10 NAME  10 NAME  11 D+B NUMBE  10 STREET ADDRESS (P. O. Box, RFD *, etc.)  13 SIC CODE  14 CITY  15 STATE 16 ZIP CODE	08 YEARS OF OPERATION	09 NAME OF OWNER C	DURING THE	SPERIOD				
05 CITY	O1 NAME O2			02 D+B NUMBER	10 NAME	11 D+B NUMBER		
OB YEARS OF OPERATION DO NAME OF OWNER DURING THIS PERIOD  O1 NAME  O2 D+8 NUMBER  ID NAME  11 D+8 NUMBE  O3 STREET ADDRESS (P.O. Box, RFD *, etc.)  O4 SIC CODE  12 STREET ADDRESS (P.O. Box, RFD *, etc.)  O5 CITY  O8 STATE O7 ZIP CODE  14 CITY  15 STATE 16 ZIP CODE	03 STREET ADDRESS (P 0 Box	x, 9FD *, e(c.)		DA SIC CODE	12 STREET ADDRESS (F O. Boz, RFD P, etc.)	13 SIC CODE		
01 NAME 02 D+8 NUMBER 10 NAME 11 D+8 NUMBE 03 STHEET ADDRESS (P.O. BOX, RFD P. BIC.) 13 SIC COD 05 CITY 08 STATE 07 ZIP CODE 14 CITY 15 STATE 16 ZIP CODE	OS CITY		08 STATE	07 ZIP CODE		15 STATE	16 ZIP CODE	
03 STREET ADDRESS (P. O. BOX, RFD P. OC.)  04 SIC CODE  12 STREET ADDRESS (P. O. BOX, RFD P. OC.)  13 SIC COD  05 CITY  08 STATE 07 ZIP CODE  14 CITY  15 STATE 16 ZIP CODE	08 YEARS OF OPERATION	D9 NAME OF OWNER (	DURING THI	SPERIOD	·			
US CITY 08 STATE 07 ZIP CODE 14 CITY 15 STATE 16 ZIP CODE	O1 NAME 02		02 D+8 NUMBER	10 NAME	11 O+B NUMBER			
	03 STREET ADDRESS (P.O. BOX	x, RFD #, etc.)	<del> </del>	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD e, etc.)	13 SIC CODE		
D8 YEARS OF OPERATION U9 NAME OF OWNER DURING THIS PERIOD					14 City	15 STATE	16 ZIP CODE	
	08 YEARS OF OPERATION 09 NAME OF OWNER DURING THIS PERIOD							
IV. SOURCES OF INFORMATION (Cite specific references: e.g., state lifes: sample analysis, reports)	IV. SOURCES OF INFO	RMATION (CHO Specific	references, 4	) g , stele Mes. sample analysis,	reports)			
					- -			
						-		

	P	OTE	NTIAL HAZAF	RDOUS WASTE SITE	I. IDENTIF	
				TION REPORT	SITE NUMBER	
PART 9 - GENERATOR/TRA				ANSPORTER INFORMATION	LGA_L	0990741332
II. ON-SITE GENERATOR						
DI NAME		02 D I	BNUMBER			
Georgia Pacific Corp.		D9	90741332			
03 STREET ADDRESS (P O Box, RFD #, etc.)		1	04 SIC CODE			Í
P.O.Box 367, Old Louisv	ille	Rd↓				
05 CITY	OE STATE	07 21	CODE	1		
Savannah	GA	B14	98			
III. OFF-SITE GENERATOR(S)	· · · · · · · · · · · · · · · · · · ·			<del></del>		
G1 NAME.		02 D	B NUMBER	01 NAME		02 D+8 NUMBER
	:	1				
03 STREET ADDRESS (P. O. Box, RFD P. etc.)		T	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFO F, etc.)		04 SIC CODE
		l		{		
05 CITY	DE STATE	07 ŽII	CODE	OS CITY	06 STATE	07 ZIP CODE
01 NAME		02 D4	B NUMBER	01 NAME		02 D+8 NUMBER
C3 STREET ADORESS (P. U. Box, RFD #, etc.)		Ţ	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #. etc.)		04 SIC COD€
05 CITY	OB STATE	Q7 ZH	CODE	05 CITY	06 STATE	07 ZIP CODE
		L_				
IV. TRANSPORTER(S)						
OI NAME		02 D	- 8 NUMBER	01 NAME		02 D+B NUMBER
			<del> </del>			
03 STREET ADDRESS IP O. Box, RFD #, etc.)			04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD P, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZII	CODE	05 CITY	06 STATE	07 ZIP CODE
	<u> </u>			<u> </u>	_1	
O1 NAME		102 D4	HE NUMBER	OI NAME		02 D+B NUMBER
		L				
03 STREET ADDRESS (P.O. Box, NFD #, etc.)		- ['	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
US CIFY	06 STATE	107.75	2 CODE	05 CITY	Ine STATE	07 ZIP CODE
05 (117	OU STATE	0, 21	CODE		0031212	Ur EIF CODE
	L	l		<u> </u>		L
V. SOURCES OF INFORMATION (Cite apacidity	relurences,	e g., 3/e	le lhes, sample unulysis, rej	ports)		
STATE FILES ATTACHED						
SIMIL FILLS MIMORED						
				•		

# POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

ンとアス		<b>PECTION REPORT</b> TRESPONSE ACTIVI	1 (	GA D990741332
AST RESPONSE ACTIVITIES				
01 E A WATER SUPPLY CLOSED 04 DESCRIPTION		C2 DATE	03 AGENCY	
01 (1.5. TEMPORARY WATER SUPPLY PRO 04 DESCRIPTION	VIDED	02 DATE	YORSUA E0	
01 C. C. PERMANENT WATER SUPPLY PRO 04 DESCRIPTION	VIDED	02 DATE	03 AGENCY _	
01 D SPILLED MATERIAL REMOVED 04 DESCRIPTION		U2 DATE	03 AGENCY _	
01 E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION		02 DATE	03 AGENCY _	
01 D.F. WASTE REPACKAGED 04 DESCRIPTION		02 DATE	03 AGENCY	
01 C G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION		02 DATE	03 AGENCY _	
01 () H. ON SITE BURIAL 04 DESCRIPTION	•	02 DATE	03 AGENCY	
01 STU CHEMICAL TREATMENT 04 DESCRIPTION	<del></del>	02 DATE	03 AGENCY	
01 ED J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION		O2 DATE	03 AGENCY	
01 ! J K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	- <u></u>	02 DATE	03 AGENCY	
01 (; L ENCAPSULATION 04 DESCRIPTION		02 <b>DA</b> TE	03 AGENCY	
01 C.M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION		O2 DATE	03 AGENCY	
01 L. N. CUTOFF WALLS 04 DESCRIPTION		02 DATE	03 AGENCY	
01 : O EMERGENCY CIKING SURFACE WA 04 DESCRIPTION	TER DIVERSION	02 DATE	03 AGENCY	
01 L.P. CUTOFF THENCHES SUMP 04 DESCRIPTION		O2 DATE	03 AGENCY	
01 G SUBSURFACE OUTOFF WALL 04 DESCRIPTION		02 DATE	03 AGENCY _	

<b>≎</b> EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10-MAST RESPONSE ACTIVITIES	L IDENTIFICATION OI STATE OZ SITE NUMBER GA D990741332
II PAST RESPONSE ACTIVITIES (Commund)		
01 [] R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 CLS. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY
01 (2) T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
01 CFU GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 © V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
01 © W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 D X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 J Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 () Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY
01 (2) 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 © 2 POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY
01 XI 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE late 1985	03 AGENCY GA Pacific
Installed numerous shall areas. These wells were shallow ground water flo	ow ground water observation we installed to obtain water lev w directions.	lls around the 2 disposal el measurements to deduce
		·
III. SOURCES OF INFORMATION (Cite specific refe	rences, e.g., state files i ambie analysis reports)	
STATE FILES ATTACHED		

#### APPENUIA É

	POTENTIAL HAZARDOUS V		I. IDENTIFICATION		
<b>SEPA</b>	SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION		GA D990741332		
II. ENFORCEMENT INFORMATION					
01 PAST REGULATORY ENFORCEMENT ACTION (1)	ES XVO				
Maria Contraction of the Contrac	LATURY ENFORCEMENT ACTION				
• •					
		•			
	•				
	•	•			
		· <del>····································</del>		···	
II. SOURCES OF INFORMATION (Cite specifie)	etarancos, e.g., state tilas, semple analysis, reports)				
		•			
STATE FILES ATTACHED					

#### APPENDIX F

Facility name: Georgia Pacific Corp. Savannah
Location: P.O. Box 367, Old Louisville Rd, Savannah, Georgia
EPA Region:
in charge of the facility: Mr. Tom Stevens- Environmental Engineer
Mr. Lean Stephenson - Plant Superintendent
/. 
Name of Reviewer:
General description of the facility:
(For example: landfill, surface impoundment, pile, container, types of hazardous substances; location of the
facility; contamination route of major concern; types of information needed for rating; agency action, etc.)
The Georgia Pacific Corp. facility near Sevensih consists of a plywood
and well panelling facility which has operated since 1949. From 1959
until 1965, the facility generated from 2-4 drums of liquid/sludge was
solvents, points, min spirit, etc. These wastes were poured out outo
the ground at 2 areas behind the monutacturing plant. Sampling by the
Co. EPD on 11/21/05 inducated that crushed downs containing to/vere and
Mathy I so but I Ketom were present by one of the areas.
Scores: $S_M = 20.44 (S_{gw} = 34.30 S_{sw} = 8.58 S_a = 0)$
SFE = Not Scored
S _{DC} = 12.50
50 72.00

FIGURE 1 HRS COVER SHEET

			· · · · · · · · · · · · · · · ·	••				
Rating Factor		Assigned \ (Circle O		Multi- plier	Score	Max. Score	Ref. (Section)	
Observed Release	e	6	45	1	0	45	4,1	
If observed release is given a value of 45, proceed to line 4.  If observed release is given a value of 0, proceed to line 2.								
Route Characteris Facility Slope as		ning (0) 1 2 3		1	0	3	4.2	
Terrain 1-yr. 24-hr. Rain Distance to Nea		0 1 2 3 ce 0 1 2 3		1 2	3 4	3 6		
Water Physical State		0 1 2 3	7	1	3	3		
		Total Route Charac	cteristics Scor	e .	10	15		
3 Containment		0 1 2 (3	)	1	3	3	4.3	
Waste Characteris To ity/Persist Hazardous Was Quantity	ence		12 15 (3) 4 (5) 6 7	1 8 1	18 5	18 8	4.4	
		Total Waste Chara	cteristics Scor	e	23	26		
5 Targets Surface Water to a S Environment		0 1 (2 0 (1) 2	) 3	3 2	6	9 6	4.5	
Population Serv to Water Intake Downstream		(e) 0 4 6 12 16 18 24 30 32		. 1	0	40		
		Total Targe	ts Score		8	55		
If line 1 is 45, If line 1 is 0, i	multiply [		<b>(</b> 5	<u> </u>	5520	64,350		
Divide line 3 by 64,350 and multiply by 100 S _{SW} = 8.58								

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

	s	s-
Groundwater Route Score (Sgw)	3 4.30	1176.49
Surface Water Route Score (S _{SW} )	8.58	73.62
Air Route Score (Sa)	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		1250.11
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		35.36
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		20.44

FIGURE 10
WORKSHEET FOR COMPUTING S_M

		Direct Contact Work She	eet			
	Rating Factor	Assigned Value (Circle One)	Mul plie		Max. Score	Ref. (Section)
O	Observed Incident	O 45	1	0	45	8.1
	If line 1 is 45, proceed If line 1 is 0, proceed					
2	Accessibility	0 1 2 3	1	1	3	8.2
3	Containment	0 (15)	1	15	15	8.3
4	Waste Characteristics Toxicity	0 1 2 3	5-	15	15	8.4
[3]	Targets Population Within a 1-Mile Radius	0 1 2 3 4 5	4	12	20	8.5
	Distance to a Critical Habitat	<u>(1)</u> 1 2 3	4	0	12	
1						
		•				
						i
				<del></del>	ı	1
		Total Targets Score		12	32	• .
6	<del></del>	iy 1 × 4 × 5 / 2 × 3 × 4 × 5		2700	21.600	
7	Divide line 6 by 21,60	00 and multiply by 100	SDC	- 12.5	0	

FIGURE 12
DIRECT CONTACT WORK SHEET

# **POOR LEGIBILITY**

# PORTIONS OF THIS DOCUMENT MAY BE UNREADABLE, DUE TO THE QUALITY OF THE ORIGINAL

### DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference. Include the location of the document.

	Box 367, 018 Louis ville Rd., Savannah Ga. 3149.
DATE SCORED:	
	Steve Walker, Site Investigation fr., Ge. EP.
and the second of the second o	of information (e.g., EPA region, state, FIT, etc.):

Air route was sampled with an HNV photolouizer. On sitetical readings were not significantly different than background readings

### GROUND WATER ROUTE

OSSERVED RELEASE

score = 45

Contaminants detected (5 maximum): Chromium

ref. #/, p.3 Rationale for attributing the contaminants to the facility:

Sampling point (shallow, observation well) was located tadjacent to area ].

let. #1, p.3 and #2
2 ROUTE CHARACTERISTICS

Depth to Aguifer of Concern

Name/description of equifers(s) of concern:

Depth from the ground surface to the lowest

		_										٠		
Хe	•	2	-	•	^	•	~	•	•	3	•	•	•	-
. =	•	-	•	-	-	-	•	٠	•	4	•	•	•	• •

Mean annual or seasonal precipitation (list months for seasonal):

Mean annual lake or seasonal evaporation (list months for seasonal):

Net precipication (subtract the above figures):

# Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Permeability associated with soil type:

### Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

#### CONTAINMENT

# Containment,

Method(s) of waste or leachate containment evaluated:

Method with highest score:

3/2 cubic yards

325is of estimating and/or computing waste quantity:

4 drums liquid waste per week for 6 years (312 weeks). If

4 drums = 1 cubic yard (ref. #3), then approximately 312 cubic yards of liquid and sludge waste were released on site.

1ef. #3 and #4

Use(s) of equifier Drinking water

ilding not served by li drawing from aquifer of concern, a public warer supply: Mr. Clauser ores location inspection, closest occup

opulation Served by Ground Water Wells Within a 3-Mile Radius

med idence unknown therefore assumed Identified water-supply well(s) drawing ithin a 3-mile radius and popul and on theretare in one of a sure in ations served aquifer(s) of concern 53C to 3.8 Exes

practice acuifer(s) of concern within population (1.5 people per ac on a large scale in the Yand area irrigated by supply well(s) drawing

" bichin

Dessoirs

persons

# SURFACE WATER ROUTE

ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

rest downslope

Maker's

Score = 3 Distance to Nearest Downslove Surface Water

1/2 mile - Pipe Maker's Canel Scor= 4 Yet. # \$ 7
Physical Scace of Hasse liquid and Sludge & ret. #4 Waste pile uncovered was; was simply poured out onto the ground.)

ref. ### Method with highest score:

waste pile, uncovered

ref. #3

ĩ

Toxi					
	 	 	 	 	_

Compound(s) evaluated

Arsenic

Tolvene

methy/ isobuty/ ketone

lead =18

Chromium=18

Arsente =18

Score = 5

Total quantity of hazardous substances at the facility, excluding with a containment score of 0 (Give a reasonable escimate

312 cubic yards

ref. # 4,
Basis of estimating and/or computing waste quantity:

(ref. #4) # drums liquid and sludge waste per week for by ears (312)

Weeks. If H drums = 1 cubic yard (ref. #3), then approximately 312 cubic yards of liquidand sludge waste were released on site.

ref. # 3 and # 4,

5 TARGETS

Surface Water Use

5 core =

substance:

Fishing

ref. # \$ 10

Sensitive Environment

Distance to 5-acre (minimum) coastal weckend, if 2 miles

Score

Water

tocation(s) of water-supply intake(s) within 3 miles bodies) or 1 mile (static water bodies) downstream of **s**ubscance and popular downstream of (free-flowing

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.3 people per acre):

None

Total population served:

Name/description of nearest of above water bodies:

Distance to above-cited intakes, measured in stream miles.

L OBSERVED RELEASE

score = 0

Contaminants detected:

None detected with HNU photoionizer

Date and location of detection of contaminants

Methods used to detect the contaminants:

Racionale for attributing the concaminants to the site:

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

Toxicia	

Most toxic compound:

# Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

3 TARGETS

# Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

O to 4 mi

0 to 1 mi

0 to 1/2 mi

0 to 1/4 mi

# Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if I mile or less:

Distance to critical habitat of an endangered species, if I mile or less:

# Land Use

Distance to commercial/industrial area, if I mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if I mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

# FIRE AND EXPLOSION

1 CONTAINMENT

Not Ranked

score = 0

Hazardous substances present:

Type of containment, if applicable:

2 WASTE CHARACTERISTICS

# Direct Evidence

Type of instrument and measurements:

# Ignicability

Compound used:

# Reactivity

Most reactive compound:

# Incompatibility

Most incompatible pair of compounds:

					_			
M a	4 5 7	da	 1230	2	Quar	200	-	19
112		-20	 		~ ~ ~ .		• •	•

Total quantity of hazardous substances at the facility:

Basis of estimating and/or computing waste quantity:

* * *

### 3 TARGETS

Distance to Nearest Population

# Distance to Nearest Building

# Distance to Sensitive Environment

Distance to wetlands:

Distance to critical habitat:

# Land Use

Distance to commercial/industrial area, if I mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National National National National Register)

Population Within 2-Mile Radius

Buildings Within 2-Mile Radius

1 OSSERVED INCIDENT Score = 0

Date, location, and pertinent details of incident:

2 ACCESSIBILITY Score =/

Describe type of barrier(s): partially fenced security guard

f. #14

3 CONTAINMENT

score =15

Type of containment, if applicable: Not contained

rel. # 4

4 WASTE CHARACTERISTICS

Toxicity Score = 15

Compounds evaluated: /cad

Arsenic

Chromica

Tolvent Methy Isbuty/Ketone Compound with highest scote: Teof -18

ref.#3

Arsenic Chronitizat

# 5 TARGETS

Population vithin one-mile radius SCONE = 12.

2075 - house count on referred topo. map.

ret. ©

Distance to critical habitat (of endangered species)

Score = 0

> | mi/e

ret. # 12

#### APPENDIX F

### References to HRS

- 1. Laboratory analysis reports from samples collected at the site on 11/21/85 and 4/11/86. Laboratory analysis by EPD laboratory and Savannah Laboratories and Environmental Services, Inc.
- 2. Georgia EPD, 1986. Site Investigation Report (Draft) by Steve Walker, Georgia Pacific Corporation Savannah, Appendix A, Figure 2. Site Sketch map showing locations of the 2 shallow ground water samples obtianed by the EPD on 11/21/85.
- 3. National Oil and Hazardous Substances Contingency Plan. Appendix A, 40 CFR, Part 300, 47 Federal Register 31219.
- 4. Stephenson, Leon, 1986. Plant Superintendent, Georgia Pacific Corporation Savannah. Record of telephonic converation 7/21/86, RE: past waste disposal activities at the site.
- 5. Clawson, Paul N., 1986. Consulting Geologist, Record of Telephonic Conversation 8/1/86, RE: shallow drinking water wells within 3 miles of the site.
- 6. Lindsey, Charles, 1986. Environmental Health Specialist, Chatham County Health Departmen' Record of Telephonic Conversation 7/29/86, RE: shallow wells in Chatham Controls.
- 7. Georgi EPÚ, 1986. Site Investigation Report (Draft), Georgia Pacific Corporation Savannah, Appendix A, Figure 1.
- 8. Shirley, Jim, 1986. Chatham County Extension Agent, Georgia Agricultural Extension Service. Record of Telephonic Conversation 7/29/86, RE: irrigation from shallow ground water and surface water near the site.
- 9. U. S. Geological Survey, 1980. Garden City Quadrangle Map, 7.5 minute topographic series, contour interval 1.5 meters, scale 1:24,000. Map shows slope at and northwest of the site.
- 10. Haley, Bill, 1986. Conservation Corporal, Game and Fish Division, Georgia Department of Natural Resources. Record of Telephonic Conversation 7/28/86, RE: Fishing in Pipe Maker's Canal.
- 11. Milan, Mike, 1986. Petty Officer, U. S. Coast Guard. Record of Telephonic Conversation 7/14/86, RE: tidal influence on Pipe Maker's Canal.
- 11. Occupit IPD, 1986. (getting Tapella (getting) is there or, Georgia Pacific Corporation Savannah, Appendix A, Figure 3.

- 13. Odom, Ron R., Jerry L. McCollum, Mary Anne Neville and David R. Ettman, 1977. Georgia's Protected Wildlife. Game and Fish Division, Georgia Department of Natural Resources, pages 42-1 and 42-2.
- 14. Weil, William, 1986. Operations Superintendent, Surface Water Division, Savannah Water Department, Record of Telephonic Conversation 7/30/86, RE: use of water from the Savannah River and Pipe Maker's Canal.
- 15. Walker, Steve, 1986. Memorandum to file, RE: observations made while on site on 11/21/86.

LABORATORY REPOR

HRS Reference #1 P.1 of 16

SAPLE PROJECT: Ga. Parific - Savannah COLLECTOR: Walker 1870 HW LOC NO. DATE 4-14-86 REC'D LABEL GP-5 TDE REC'D REC'D BY: DEL. DATE: 5-39-96 PARAMETERS LAB NO. HW 1870 Valatile Organic Confounds 41 (10%) 5.6 mg/Kg 45 As <15 Ba 1800 45 190 425 <20 160 A5 210 Ba * 420 31 420 450 <100 Bis (2 Ethyl Heryl) Shthalate 39 RANKS: REMEDIAL ACTIONS UNIT

LABORATORY REPORT

HRS Reference #1 p.2 of 16

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DATE: 4/1/86	PROJECT: Ga.	Pacific-	Savannah	COLT	ECTOR: Lu	a/ker
	HW LOG NO.	1869				1
DATE REC'D 4-14-36 TIPE REC'D 1430	LABEL	GP-D				
REC'D  BY: A Road  DEL  BY: S walker		Waste	/			·
Harold Laboratory MAI	NAGER	-white Solid from drum				
DATE: 5 - 29-36 PARAMETERS	LAB NO.	D. 1877 C		<del> </del>	<u> </u>	
Volatile Organia Co		4012Cd			-	
WIRTHE OF ARIC CA	SAJEWIS TIKE				<del> </del>	
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LABORATORY REPOR.

HRS Reference #1. p.3 of 16

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C'D 11-22-85	LABEL	, ,				
EC'D Y: N Landord		ground water	ground water,			
Y: Walker		shallow well	Shelbuncl1			
LABORATORY MANAGER		areal	area 2			
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LABORATORY REPOR HRS Reference #1
p.4 of 16

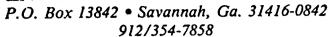
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HRS Reference #1

p.5 of 16

# SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

James W. Andrews, Ph.D. Janette M. Davis





LOG NO: 85-0772

Received: 21 NOV 85 Reported: 20 DEC 85

Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

# REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , WATER SAMPLES										
0772-1 0772-2		#7 upstream near drum site of Area #1 Well #5 from drum site of Area #2									
PARAMETER	}		0772-1	0772-2							
Arsenic.			0.03	<0.01							
Barium, n			0.085	0.068							
Cadmium,	mg/l		<0.01	<0.01							
Chromium			<0.05	<0.05							
Lead, mg	· •		0.03	<0.01							
Selenium			<0.05	<0.05							
Silver,			<0.05	<0.05							
	(Dissolved), mg/l		<0.01	<0.01							
	Dissolved), mg/l		<0.05	<0.05							
•	(Dissolved), mg/l		<0.01	<0.01							
	(Dissolved), mg/l		<0.05	<0.05	•						
Lead (Di	ssolved), mg/l		<0.01	<0.01							
	(Dissolved), mg/l		<0.05	<0.05							
Silver (	Dissolved), mg/l	•	<0.05	<0.05							
~											

Note - samples were splits of EAD samples

HRS Reference #1 p.6 of 16

# SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

James W. Andrews, Ph.D. President
Jamette M. Davis
Chief Chemist. VP

P.O. Box 13842 • Savannah, Ga. 31416-0842 912/354-7858



LOG NO: 85-0772

Received: 21 NOV 85 Reported: 20 DEC 85

Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

#### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOIL SAMPLES			
0772-3 0772-4 0772-5	GP-1 Background Soil GP-2 soil cmpos/drum site/MW#7/Area #1 GP-3 soil cmpos/drum site/MW#5/Area #2			
PARAMETER	;	0772-3	0772-4	0772-5
Arsenic, mg	g/kg	88	1800	550
Barium, mg/		88	3.9	4.4
Cadmium, mg	g/kg	<0.059	1.7	0.59
Chromium,	sg/kg	7.1	3.6	41
Lead, mg/kg		12	. 59	80
Selenium, m	ng/kg	<29	<29	<33
Silver, mg/	/kg	<2.9	<2.9	<3.3

Note - Samples were splits of EPO soil samples

James W. Andrews, Ph.D. President

Janette M. Davis Vice-President

# SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.



P. O. Box 13842 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858

LOG NO: 86-0821

Received: 11 APR 86

Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION	N , SOIL SAMP	LES			
0821-1	Site #1 - 10 - Say	vannah Plant	arcal			
0821-2	Site #1 - 11 - Say	vannah Plant	11			
0821~3	Site #1 - 12 - Sa	vannah Plant	11			
0821-4	Site #1 - 13 - Say	vannah Plant	, t			
0821-5	Site #1 - 14 - Sav	vannah Plant	17			
PARAMETER		0821-1	0821-2	:1-3	0821-4	0821-5
Arsenic, m	g/kg	7.4	8.1	15	14	6.3
Barium, mg	/kg	130	550	830	600	82
Cadmium, mg	r/kg	0.10	0.16	0.10	0.38	0.06
Chromium, n	ng/kg	<1.3	6.3	13	62	
Lead, mg/kg		15	31	26	76	23
		<0.02	0.10	0.10	0.40	0.10
	_	<1	<2		<2	<1
		<1	<2	<1	<2	<1
Cadmium, ma	/kg g/kg ng/kg g g/kg ng/kg	130 0.10 <1.3 15 <0.02 <1	550 0.16 6.3 31 0.10 <2	830 0.10 13 26 0.10 <1	600 0.38 62 76 0.40 <2	

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James W. Andrews, Ph.D. President

Janette M. Davis Vice-President

# SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.



P. O. Box 13842 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858

LOG NO: 86-0821

Received: 11 APR 86

Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NF. Atlanta, GA 30303

### REPORT OF ANALYTICAL RESULTS

LOG NO	NO SAMPLE DESCRIPTION , SOIL SAMPLES					
0821-6	Site #1 - 15 -	Savannah Plant	area 1			
0821-7	Site #1 - 16 -	Savannah Plant	tf			
0821-8	Site #1 - 17 -	Savannah Plant	••			•
0821-9	Site #1 - 18 -	Savannah Plant	••			
0821-10	Site #1 - 19 -	Savannah Plant	<b>'</b>			
PARAMETER		0821-6	0821-7	0821-8	0821-9	0821-10
Arsenic, mg	/kg	3.9	9.1	8.2	3.5	6.3
Barium, mg/	kg	95	1100	740	260	800
Cadmium, mg	/kg	0.06	0.34	0.18	0.63	0.44
Chromium, mg/kg		<1.5	36	29	<1.9	20
Lead, mg/kg		12	43	36	20	30
Mercury, mg	/kg	<0.03	0.20	0.06	0.05	0.06
Selenium, m	g/kg	<2	<1	<2	<2	<1
Silver, mg/	kg	<2	<1	<2	<2	<1

Thomas L. Stephens Laboratory Director

James W. Andrews, Ph.D. President

Janette M. Davis Vice-President

# SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC. TALLAHASSEE DIVISION

TALLAHASSEE DIVISION
P. O. Box 13056 • Tallahassee, FL 32317-3056
2820 Industrial Plaza Blvd. (32301)
(904) 878-3994



LOG NO: 86-0821

Received: 11 APR 86

Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRI	PTION , SOIL SAM	PLES				
0821-11	Site #1 - 20	- Savannah Plant	arw.				
0821-12		- Savannah Plant					
0821-13	Site #2 - 34	- Savannah Plant	areas				
0821-14	Site #2 - 35 -	Site #2 - 35 - Savannah Plant					
0821-15	Site #2 - 36	- Savannah Plant	u u				
ARAMETER		0821-11	0821-12	0821-13	0821-14	0821-15	
Arsenic, mg	/kg	3.7	2.2	15	11	9.1	
Barium, mg/	kg	22	940	690	3400	150	
Cadmium, mg	/kg	0.04	0.07	0.68	0.73	0.61	
Chromium, m	g/kg	<0.9	40	16	17	19	
Lead, mg/kg	,	6.3	20	23	25	24	
Mercury, mg	/kg	0.03	0.30	0.2	0.2	0.4	
Selenium, m	_	<1	<2	<2	<1	<1	
Silver, mg/		<1	<2	<2	<1	<1	

James W. Andrews, Ph.D. President

# SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

Janette M. Davis Vice-President

P. O. Box 13842 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858



LOG NO: 86-0821

Received: 11 APR 86

Tom Stevens
Georgia-Pacific Corporation
133 Peachtree St., NE
Atlanta, GA 30303

### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRI	PTION , SOIL SAME	PLES				
0821-16	Site #2 - 37 - Savannah Plant ***  Site #2 - 38 - Savannah Plant ''  Site #2 - 39 - Savannah Plant ''  Site #2 - 40 - Savannah Plant ''  Site #2 - 41 - Savannah Plant ''						
0821-17							
0821-18							
0821-19							
0821-20							
PARAMETER		0821-16	0821-17	0821-18	0821-19	0821-20	
Arsenic, mg	/kg	13	6.5	5.1	11	4.1	
Barium, mg/	kg	430	570	660	1000	3500	
Cadmium, mg	<del>-</del>	0.56	0.48	0.15	1.2	1.5	
Chromium, m		20	27	15	31	33	
Lead, mg/kg		68	23	13	38	1300	
Mercury, mg		0.30	0.02	0.2	0.3	0.1	
Selenium, m		<3	<2	<1	<2	<1	
Silver, mg/	- •	<3	<2	<1	<2	<1	

HRS Reference #1 p.11 of 16

James W. Andrews, Ph.D. President

Janette M. Davis Vice-President

# SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

P. O. Box 13842 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858

I.OG NO: 86-0821

Received: 11 APR 86

Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOIL SAMP	LES			
0821-21	Site #2 - 42 - Savannah Plant	arca. 2.			
0821-22	Site #2 - 43 - Savannah Plant	r •			
0821-23	Site #2 - 44 - Savannah Plant	T c	•		
0821-24	Site #2 - 45 - Savannah Plant	* /			
PARAMETER		0821-21	0821-22	0821-23	0821-24
Arsenic, m	g/kg	9.3	8.5	6.1	22
Barium, mg	/kg	2100	840	1400	4700
Cadmium, m	g/kg	0.78 - 51	0.55 18	1.8 18	1.0 23
Chromium,	ng/kg				
Lead, mg/k	S	41	28	50	42
Mercury, m		0.49	<0.04	0.03	0.20
Selenium,	ng/kg	<2	<3	<2	<2
Silver, mg	<del>-</del>	<2	<3	<2	<2

Methods: SW846

Janette M. Davis

HRS Reference #1 p.12 of 16

James W. Andrews, Ph.D. President

Janette M. Davis Vice-President

# SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

P. O. Box 13842 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858

LOG NO: 00-0821

Received: 11 APR 86

Mr. Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION ,	SOIL SAN	MPLES			
0821-1	#1 - Savannah Plant					
0821-2	<b>#7 - Savannah Plant</b>					
0821-3	#8 - Savannah Plant	•				
0821-4	#9 - Savannah Plant					
0821-5	#23 - Savannah Plant					
PARAMETER	}	0821-1	0821-2	0821-3	0821-4	0821-5
Arsenic,	mg/kg	32	9.6	1.5	1.4	3.0
Chromium,	mg/kg	44	7.5	11	4.2	4.8
Lead, mg/	_ = =	16	4.3	16	. 16	8.0
Mercury,	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03

Methods: EPA SW-846

James W. Andrews, Ph.D. Prendent

SAVANNAH LABORATORILS
AND ENVIRONMENTAL SERVICES, INC.

Janette M. Davis Vice-President P. O. Box 13842 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858



LOG NO: 00-0821

Received: 11 APR 86

Mr. Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOIL SAMPLES						
0821-6	#24 - Savannah Plant	Plant					
0821-7	#25 - Savannah	Plant					
0821-8	#46 - Savannah Plan	Plant					
0821-9	#47 - Savannah	Plant					
0821-10	#48 - Savannah	Plant					
SAKAMETER		0821-6	0821-7	0821-8	0821-9	0821-10	
Arsenic,	ng/kg	7.3	2.5	26	21	10	
Chromium,	mg/kg	25	26	53	21	10	
Lead, mg/kg		24	45	37	29	8.0	
Mercury,	<b>−</b>	<0.03	<0.03	<0.03	<0.03	<0.03	

Methods: EPA SW-846

# Whitfield Avenue at Shipyard Road (31406) (912) 354-7858

LOG NO: 00-0821

Received: 11 APR 86

Mr. Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

# REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOIL SAMPLES	,	
0821-11 0821-12	#49 - Savannah Plant #50 - Savannah Plant		
PARAMETER	0821-11	0821-12	
Arsenic, mg Chromium, m Lead, mg/kg Mercury, mg	ng/kg 16 g 6.6	25 22 9.4 <0.03	

Methods: EPA SW-846

Janata M. Danie

# (912) 354-7858

LOG NO: 86-1181

Received: 21 MAY 86

Mr. Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

#### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION	, SOIL SAMI	PLES			
1181-1 1181-2 1181-3 1181-4 1181-5	#13 (4' - 5') #13 (9' - 10') #16 (4' - 5') #16 (9' - 10') #41 (4' - 5')					
PARAMETER		1181-1	1181-2	1181-3	1131-4	1181-5
Lead, mg/k Mercury, m	<del>-</del>	4.7	7.2 <0.03	8.7	5.7	9.5

Methods: EPA SW-846

James W. Andrews, Ph.D. President

SAVANNAH LABORATORIES
AND ENVIRONMENTAL SERVICES, INC.

Janette M. Davis Vice-President

P. O. Box 13842 • Savannah, GA 31416-0842 Whitfield Avenue at Shipyard Road (31406) (912) 354-7858



LOG NO: 86-1181

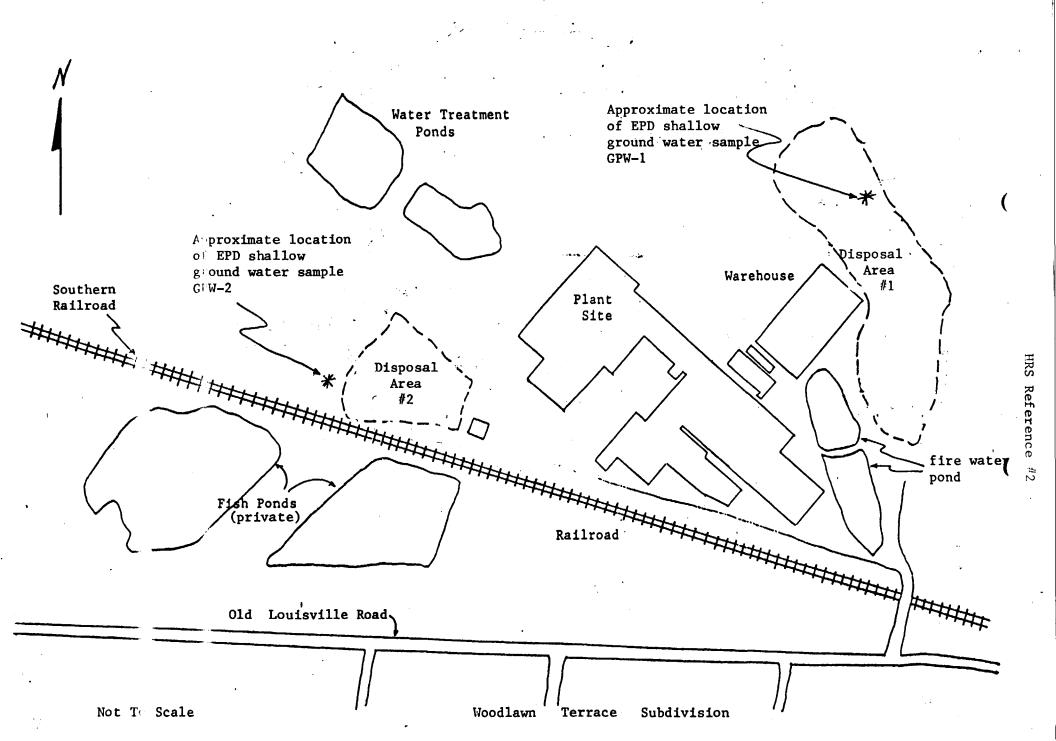
Received: 21 MAY 86

Mr. Tom Stevens Georgia-Pacific Corporation 133 Peachtree St., NE Atlanta, GA 30303

#### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOIL SAMPLES
1181-6	#41 (9' - 10')
PARAMETER.	1181-6
Lead, mg/kg	20
Mercury, mg	/kg <0.03

Methods: EPA SW-846



## MECORD OF TELEPHONIC CONVERSATION

Site Investigation Program

Routing: 5'T	Date: 7/2//86
·	Time: <u>2.44</u> a.m. (p.m)
File: Georgia Paritie Corp 5	evounah
Party Spoken To: Ma Lean Stephensa	n Title: Plant Superintenden
Agency/Company: 6 cary la Pactt	( Corp.
Address: P.O. Bax 367 Old Lawite	"le KlCity: Savannah
Telephone Number: (9/2) -	Y/c R/City: Savannah  State/Zip: Georgia 3/498
Subject (file name):	<u> </u>
Summary of Call: A confinence call	between Rick Horder-Conyer Ge. Par.)
	Tom Stevens - (Env. Log. Go. Pac.) and Ster
	Il was arranged at the request
of Georgia Pacific so that	T could ask Lean Stephenson
	stated that 2, 3 or 4 drums, of
	centra 1919-1965. This drumed
	to the ground in areas I and I accord
to Mr Stephenson He also st	sted that no of scaled drims
All result All was he	1 Company of the second
THE AT PERTY FULL WERE MUTTE	d'in ara lor area 2.
Actions Required:	
Notions required	
	<b>+</b>
Signature: Signature:	7/21/6/
	7/21/8
Follow-up Responses/Additional Comments:	
Signature:	Date:
SIP-2	5/86

# RECORD OF TELEPHONIC CONVERSATION

Site Investigation Program

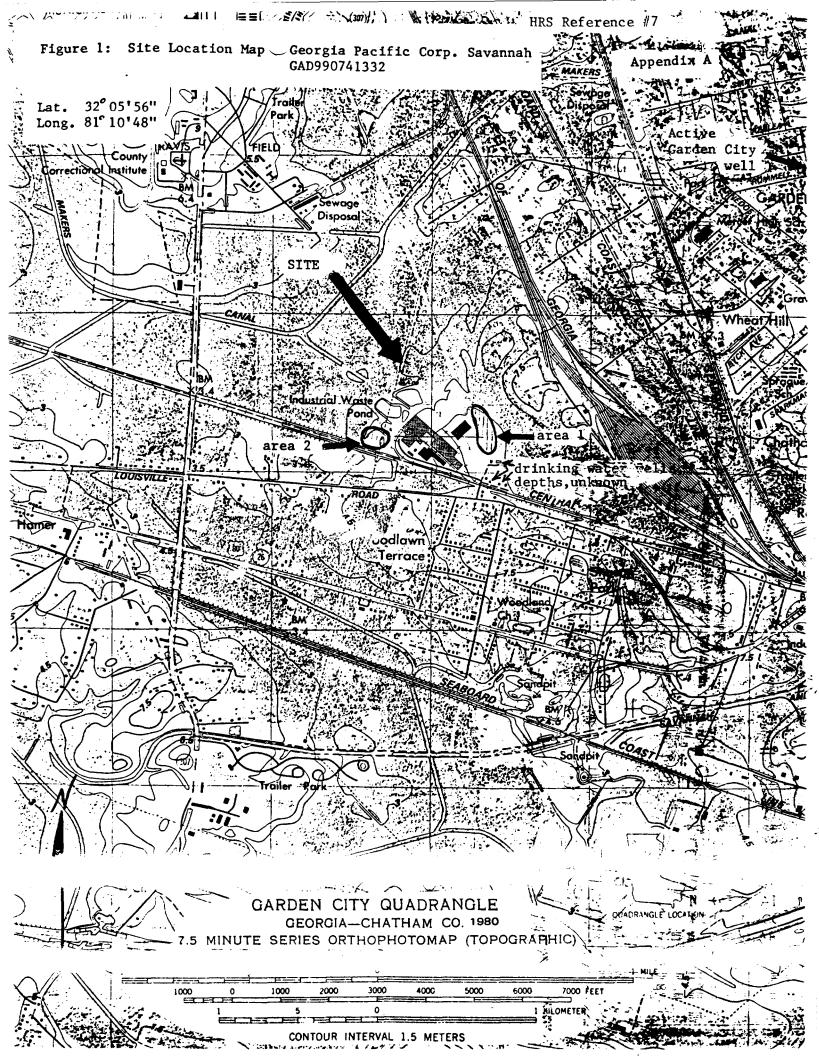
Routing: Mike Alfred Mikefluck 5-4-86 Date: 8/1/86  SI HAS Time: 9:55 a.m. p.m.
File: Georgia Parifix Corp. Somenah
File: Georgia Parifix Corp. Samuele  Party Spoken To: Mr. Paul N. Clauson Title: Prof. Geologist
Agency/Company: None
Address: City: Savannah
Brother-in-law Telephone Number: (305) 491 - 4538 State/Zip: Georgia
Subject (file name): Georgia Parific Corp. Savannah
Summary of Call: I called Mr. Clawson in Fart Lawtendale, Elg
to attempt to gether information on shallow wells near the
Site his wife stated that she thought that be was the only one in
Sav who put in shallow wells). I asked Mr. Clauson it he knew as
any wells, 225' feet or so that are used for decaking within
3 miles of the Georgia Pacific plant Mr. Clausan said that
he kew of the Go. Par. plant and that he knew of 3 private
shellow wells within 3 miles of the plant. He stated that
he could no longer remember the name of the residents with the
wells. He intered that he drilled the wells himself. (over)
Actions Required:
Signature: 1 Signature: 8/3/86
Follow-up Responses/Additional Comments:
·
Signature: Date:
SIP-2 5/86

# HRS eference #6 p.1 of 1

# RECORD OF TELEPHONIC CONVERSATION

Site Investi	gation Program
Routing: HAS	Date: 7/29/86
	Time: <u>8:05</u> (a.m./p.m.
File: Georgia Pacific Corp Sa	wannah
Party Spoken To: Mr. Charles Line	sex Title: Env. Health Prog. Specie
	am/ Chatham County Health Departmen
Address:	City: Savannah
Telephone Number: (9/2 ) 356 - 2/	60 State/Zip: Georgia
Subject (file name): Georgia Paci	fic Corp. Savannah
( 1 /	out if the subject health dept.
was aware of any shallow	wells (= so'deep) in Chathan
County. Mr. Lindsey st	ated that he has been working
for the health dept. for	about 28 years and in all that
, , , , , , , , , , , , , , , , , , , ,	lew shallow wells. He said that
even though it is unlikely	that anyone in the county is
using a s allow well for	Arinking water, the possibility
does exist.	
Actions Required:	
	-

Signature: Date:



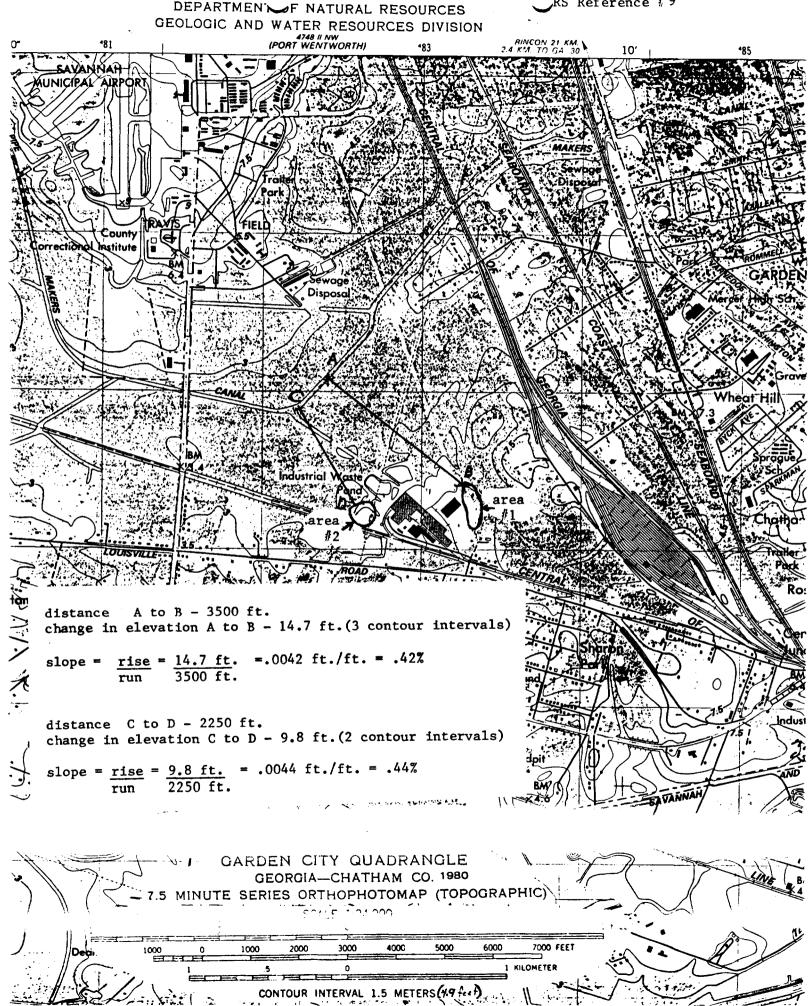
## RECORD OF TELEPHONIC CONVERSATION

## Site Investigation Program

Routing: HRS	Date: 7/29/86
	Time: //27a.m.(p.m.
File: Georgia Pacific Corp. Savano	rah
Party Spoken To: Mr. Jim Shirley	Title: Chathen Co. Extention
Agency/Company: Georges Agricultura	
Address:	City: Savannah
Telephone Number: (912)944 - 229/	State/Zip: Congla
Subject (file name): Georgia Pacific Co	
Summary of Call: I called Mr. Shirl	
Maker's Canal 15 used for irrig	
of any shallow wells which are	used for irrigation in the
County. Mr. shinley stated +	that he is not aware of
day irrigation from Pipe Maker's	
wells in Chatham County.	•
Actions Required:	
, , ,	<b>▼</b>
Signature: Lune Walker	7/29/01
Follow-up Responses/Additional Comments:	1/21/08
-	
	<del> </del>
Signature:	Date:
SIP-2	5/86

## STATE OF GEORGIA DEPARTMEN F NATURAL RESOURCES

RS Reference #9



5/86

#### LECORD OF TELEPHONIC CONVERSATION

Site Investigation Program Date: 7/28 Time: File: Comia Pacific Party Spoken To: Mr. 13.4// Agency/Company: 6eorg ha Game and Fish Address: - 7957 State/Zip: 6care Telephone Number: (9/2)Subject (file name): 6 cora la Summary of Call:  $\overline{I}$ Actions Required: _ Signature:____ Follow-up Responses/Additional Comments: Signature:___ Date:

SIP-2

5/86

#### PRECORD OF TELEPHONIC CONVERSATION

#### Site Investigation Program

Routing:	Date: 7/14/86
	Time: 320 a.m. (p.m)
File: Georgia Paritix Corp. Savannah	
Party Spoken To: Mike Milan	Title: Petty Officer
Agency/Company: U.S. Coast Guard	
Address:	
Telephone Number: (9/2) 944 - 4353	_
Subject (file name): Georgia Pacific Co.	
Summary of Call: I called Mr. Milan	
at tidal action on Pipe Maker's	
Mr. Milan said that he was fami	
that tidal action is probable as for	•
Site is between I-95 and the Sa	wareah Airen
- SIFE - O GET WEEK - IN AND I HE DIE	WERRE'C TUVEL
And the second s	
Actions Possimods	<del></del>
Actions Required:	
	• .
Si # 1///	7/1/0/
Signature: <u>Alue Walker</u>	//4/86
Follow-up Responses/Additional Comments:	
Signature:	Date:
514-5	5/86

Figure 3: Map Showing 3 and 5 Mile Radii of the Georgia Pacific Plant. Appendix A SAVANNAH, GEORGIA-SOUTH CAROLINA 30 X 60 MINUTE SERIES (TOPOGRAPHIC) HUNTER ARMY AIRFIELD

#### GEORGIA'S PROTECTED WILDLIFE

PREPARED BY:

Ron R. Odom

Jerry L. McCollum

Mary Anne Neville

David R. Ettman

Game and Fish Division Endangered Wildlife Program Route 2 Social Circle, Georgia 30279

September 15, 1977

SHORTNOSE STURGEON

Order Acipenseriformes

Acipenser brevirostrum (Lesueur)

Family Acipenseridae



(REFER TO COLOR PHOTO PAGE 2)

Common Name: Shortnose Sturgeon.

Characteristics: The Shortnose Sturgeon seldom exceeds a length of more than .92 m. (3 ft.). Acipenser brevirostrum can be distinguished from the Lake Sturgeon Acipenser oxyrhynchus as follows: the Shortnosed Sturgeon has a wider mouth, blackish vs. pale viscera, a shorter and blunter snout, almost complete absence of post dorsal shields, preanal shield arranged in a single (vs. double)row, a pigmented (vs. whitish) anal fin, and a slightly higher total gillraker count (22-29, average 25.5 vs. 17-27, average 21.6). The most conspicious difference is in the pigmentation of the lateral scutes, which are much paler than the background of the body in Acipenser brevirostrum, but are the same shade as the background in the Lake Sturgeon (Gilbert, 1976).

<u>Life History:</u> The species is a bottom feeder, consuming invertebrates and plant material mixed with mud (Gilbert, 1976).

Preferred Habitat: Atlantic seaboard rivers.

<u>Status:</u> The Shortnose Sturgeon is currently listed as endangered on the Federal Endangered Species List and Georgia's Protected Species List.

<u>Population Trends:</u> Populations are thought to be rapidly declining and the species approaching extinction.

Estimated Populations: Unknown but believed to be perilously low.

<u>Reproduction:</u> Spawning takes place in rivers during early spring (Gilbert, 1976). Reproductive data is scarce.

<u>Reason for Decline</u>: Pollution and overfishing are believed to be the major factors for decline.

Protective Measures Taken: Recognized as endangered under the Endangered Wildlife Act of 1973. Nationally protected under the Endangered Species Act of 1973. Shad fishing regulations in Georgia require the release of all sturgeons taken in shad nets. Atlantic Sturgeon may be legally harvested in Georgia, but net size regulations insure selection against the shortnose and small Atlantic Sturgeon.

<u>Present Distribution:</u> Unknown. Thought to exist in the Altamaha River (Dahlberg and Scott, 1971) and the Savannah River (Carl Hall, Pers. Comm., 1977). The species may occur in all major coastal rivers in Gerogia.

Past Distribution: Atlantic seaboard rivers from New Brunswick to Florida.

Proposed Management Measures: Status surveys are badly needed. In addition, life histories, and habitat requirements should be researched. Determination of critics, habitat should be made and public education programs developed.

Number in Captivity: None known.

# RECORD OF TELEPHONIC CONVERSATION

Site Investigation Program

Routing: UAS	Date: 7/3//86
	Time: <u>2:35</u> a.m./p.m.
File: Georgia Pacifix Corp. Savannah	- -
Party Spoken To: Mr. William Weil	Title: Operations Superitunden;
Agency/Company: Surface Water Otv.,	, , , , , , , , , , , , , , , , , , , ,
Address:	City: Savannah
Telephone Number: (9/1 ) 9/4 - 0/98	State/Zip: <u>Georgia</u>
Subject (file name): Georgia Pacific Con	1. Savannah
Summary of Call: I called Mr. Weil to	
Canal or the Savannah River	
is used by the Savanah Water Dep	to Mr. Weil stated that
the Sav. Water Dept does not have	drinking water intakes on
the Savannah River below pipe Ma	her's Canal or in the conal
itselt. When asked it amone	uses the subject partlens
at theu surface waters for drinking,	Mr. Werl sald no
Actions Required:	
	· · · · · · · · · · · · · · · · · · ·
Signature: Studies	7/30/26
Follow-up Responses/Additional Comments:	
# 14% is a second of the secon	
Signatura;	P. Area

HRS Tiference #15 p.1 of 2

# Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner Harold F. Reheis, Assistant Director Environmental Protection Division (404) 656-4713

July 31, 1986

MEMORANDUM

To : File

Thru: Mike Allred, Environmental Specialist, Site Assessment Unit

From: Steve Walker, Environmental Specialist, Site Assessment Unit

Subject: Georgia Pacific Corp. Savannah - personal observations made while

at the site on 11/21/85.

comments: While at the site on November 21, 1985, I noticed that a security guard was present at the entrance gate to the facility. I latter observed no fence or guard between the Georgia Pacific property and residences adjacent to the southern portion of disposal area 1(see Figure 1 attached).

File: Georgia Pacific Corp. Savannah (B)

REGION: 04 STATE: GA

#### U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAGE: 14 RUN DATE: 12/27/85 RUN TIME: 17:48:44

#### M.2 - SITE MAINTENANCE FORM

		* ACTION: _	<b>}</b> -
EPA ID : GAD990741332			•
SITE NAME: GEORGIA-PACIFIC CORP SAV	VANNAH SOURCE: H	*	
STREET : OLD LOUISVILLE RD	CONG DIST: 01	*	
CITY : SAVANNAH	ZIP: 31498 * _		*
CNTY NAME: CHATHAM	CNTY CODE : 051	*	<u> </u>
LATITUDE : 32/06/03.0	LONGITUDE : 081/11/12.0	* _/_/	
LL-SOURCE: G	LL-ACCURACY:	* _	_ ,
SMSA :	HYDRO UNIT: *		*
INVENTORY IND: Y REMEDIAL IND: Y	REMOVAL IND: N FED FAC IND: N	•	
NPL IND: N NPL LISTING DATE:	NPL DELISTING DATE:	•/_	
SITE/SPILL IDS:			•
RPM NAME:	RPM PHONE:	•	<u>-</u>
SITE CLASSIFICATION:	SITE APPROACH:	• _	<del></del>
DIOXIN TIER: REG FL	D1: REG FLD2: 7	*	g. Marie de la companio
RESP TERM: PENDING ( ) NO FUR	RTHER ACTION ( )	* PENDING (_)	NO FURTHER ACTION (_)
ENF DISP: NO VIABLE RESP PARTY ( ENFORCED RESPONSE (		*	
SITE DESCRIPTION:			
		*	
		*	
		*	<u> </u>
		*	· ·

REGION: 04 STATE : GA

#### U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAGE: 15 RUN DATE: 12/27/85 RUN TIME: 17:48:44

#### M.2 - PROGRAM MAINTENANCE FORM

							*	ACTION:	_						
SITE:	GEORGIA-PAC	IFIC CORP	SAVANNAH												
PA ID:	GAD99074133	2 PROGR	RAM CODE:	H01 P	ROGRAM T	YPE: *									_ •
PROGRAM C	UALIFIER:	ALIAS	S LINK :				•								
PROGRAM N	AME: S	ITE EVALUA	NOITA				*			 					
ESCRIPTI	ON:														
							*			 					_ )
							*			 			<del></del>	<del></del>	
							*						<del></del>		
							*			 	····-	····			

1

REGION: 04 STATE : GA

#### U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAGE: 16 RUN DATE: 12/27/85 RUN TIME: 17:48:44

#### M.2 - EVENT MAINTENANCE FORM

			* ACTION: _		
SITE: GEORG Program: Site	IA-PACIFIC CORP SAVANNAH Evaluation				
EPA ID: GAD99	0741332 PROGRAM CODE: H01	EVENT TYPE: DS1			
FMS CODE:	EVENT QUALIFIER :	EVENT LEAD: E	• _	_	- *
EVENT NAME:	DISCOVERY	STATUS:	*		_
DESCRIPTION:					1
			*		/
			*		
			*		
			*		
ORIGINAL	CURRENT	ACTUAL			
START:	START:	START:	* _/_/_	_/_/_	/
COMP :	COMP :	COMP : 08/01/80	* _/_/_	_/_/_	_/_/_
HQ COMMENT:					
RG COMMENT:			*		
(G COMMEINT.					
					)
COOP AGR #	AMENDMENT # STATUS	STATE X			
		0	*		'

REGION: 04 STATE: GA

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#### U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAGE: 17 RUN DATE: 12/27/85 RUN TIME: 17:48:44

#### M.2 - EVENT MAINTENANCE FORM

			* ACTION: _		
SITE: GEORGI Program: Site e	IA-PACIFIC CORP SAVANNAH Evaluation				
EPA ID: GAD990	741332 PROGRAM CODE: H01	EVENT TYPE: PA1			
FMS CODE:	EVENT QUALIFIER :	EVENT LEAD: S	*		_ •
EVENT NAME:	PRELIMINARY ASSESSMENT	STATUS:	*		_
DESCRIPTION:					į.
			*		
			*		
			*		#
ORIGINAL	CURRENT	ACTUAL			
START:	START:	START: 06/10/85	* _/_/_	_/_/_	_/_/_
COMP :	COMP :	COMP : 12/10/85	* _/_/_	_/_/_	_/_/_
HQ COMMENT:					
			*		
RG COMMENT:					
			*		
COOP AGR #	AMENDMENT # STATUS	STATE X			
		0	*		

REGION: 04 STATE: GA U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAGE: 18 RUN DATE: 12/27/85 RUN TIME: 17:48:44

M.2 - COMMENT MAINTENANCE FORM

SITE:

GEORGIA-PACIFIC CORP SAVANNAH

EPA ID: GAD990741832

COM

NO COMMENT

001 PART A- ON FILE

ACTION

<u>....</u>

#### PRELIMINARY ASSESSMENT COVER SHEET GEORGIA PACIFIC CORPORATION SAVANNAH SAVANNAH, GEORGIA - CHATHAM COUNTY GAD990741332

#### A. HISTORY OF SITE

The Georgia Pacific Corporation Savannah facility is located on Old Louisville Road in Savannah, Chatham County, Georgia. The Georgia Pacific Corporation acquired this facility from the General Plywood Plant Corporation in 1949. From approximately 1949 to 1956, Georgia Pacific was engaged in producing 3/4 inch birch plywood. According to plant superintendent Mr. Leon Stephenson, no waste was dumped on site before Since 1957 this facility has been manufacturing plywood and prefinished wall paneling. According to Mr. Stephenson, on site disposal of approximately three or four fifty-five gallon drums per week of wastes occurred from 1959 to 1965. These wastes consisted of a mixture of solvents, lacquer paint and base coat materials that were derived from the production of prefinished wall paneling. After 1965 these wastes were mixed in a wood fired boiler and burned as fuel. Since 1980 all solvents and sealers and stains used have been water based materials and are considered non-hazardous. Georgia Pacific has withdrawn its Part A permit and is presently classified as a Small Quantity Generator by the Georgia EPD.

#### B. NATURE OF HAZARDOUS MATERIALS

Unknown amounts of solvents and paint wastes have been dumped onto the ground at two locations on site (see topographic map).

#### C. DESCRIPTION OF HAZARDOUS CONDITIONS, INCIDENTS, PERMIT VIOLATIONS

No known permit violations or hazardous incidents have been noted heretofore at the Georgia Pacific Savannah Facility.

#### D. ROUTES FOR CONTAMINATION

There is a potential for local ground water contamination of the surficial ground water since open dumping of solvents occurred on site from 1959 to 1965.

#### E. POSSIBLE AFFECTED POPULATION AND RESOURCES

The nearby residents of Woodlawn Terrace are supplied by a municipal well system located in Garden City, Georgia. There are local drinking water wells located approximately 1 to 1 1/2 miles west of the Georgia Pacific facility.

#### F. RECOMMENDATIONS AND JUSTIFICATIONS

A "low priority" for a Site Inspection is recommended for this facility based on the following conclusions:

Unknown quantities of lacquer based paints and solvents were disposed of on site between 1959 and 1965. A potential for soil contamination exists at the subject site. A potential for local groundwater contamination exists in the areas adjacent to the facility. Conflicting information received from Georgia Pacific personnel warrants a future inspection of this facility.

#### G. REFERENCE TO SUPPORTING DATA SOURCES

Telephone Conversation Memo - April 30, 1985

To: Mr. Leon Stephenson - Georgia Pacific Corporation - Savannah.

From: Jeffrey Williams - Georgia EPD

RE: Pre-RCRA disposal practices at Georgia Pacific Corp. - Savannah.

Telephone Conversation Memo - May 3, 1985

To: Mr. Larry Rodgers - Georgia EPD - Brunswick.

From: Jeffrey Williams - Georgia EPD

RE: Groundwater Supplies.

Georgia EPD "Waste Management Data Sheet"

Trip Report - By Martha Pierce - April 5, 1984.

Georgia EPD Files - Georgia Pacific Corporation - Savannah.

JMW/mcw028

**ŞEPA** 

# POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
O1 STATE | 02 SITE NUMBER
GA | D990741332

PANT 1-SITE INFON	MA HON A	ID MODESSIN	ENI			
II. SITE NAME AND LOCATION						
SITE NAME (Legal, common, or descriptive name of site)  02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER					}	
Georgia Pacific Corporation Savannah	h P. O. Box 367 - Old Louisville Road					
03 CITY					07 COUNTY CODE	08 CONG DIST
Savannah	GA	31498	Chatham		051	1
09 COORDINATES LATITUDE LONGITUDE	1					
32° 05' 56.0" N		·			<del></del>	
10 DIRECTIONS TO SITE (Starting from nearest public road) From the interse						
GA, take Hwy 80 west for approximatel						
ville Road. Go approximately 1.4 mil Church. GP facility is located on the						
III. RESPONSIBLE PARTIES	ie a rgire	3,1ue pi	oak drove cili	JI CII a	CIUSS I	IN CI O
01 OWNER (If known)	02 STREE	T (Business, malling,	residential)	<del></del>		
Coongia Pacific Componation	122	Dozohtno	a Ctuant ME			1
Georgia Pacific Corporation		05 ZIP CODE	e Street. NE	ER		
Atlanta	GA	30348	(404) 521-50	าลก		- 1
07 OPERATOR (N known and different from owner)		T (Business, mailing,		100		
Same as above		·				1
O9 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUME	BER	<del></del>	
		1	· ( )			Ì
13 TYPE OF OWNERSHIP (Check one)  A. PRIVATE B. FEDERAL:  (Agency name)		_ C. STAT	TE D.COUNTY	E. MUNIC	CIPAL	
□ F. OTHER:		_ G. UNK	NOWN			ì
(Specify) 14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)		<del></del>		<del></del>	···-	
[XA.RCRA 3001 DATE RECEIVED: 11 /14 /80   B. UNCONTR	OLLED WAST	E SITE (CERCLA 10	DATE RECEIVED:		C	NONE
MONTH DAY YEAR  IV. CHARACTERIZATION OF POTENTIAL HAZARD	··		M	UNIH DAY	YEAH	
01 ON SITE INSPECTION BY (Check all that apply)			·			
X YES DATE 04/15/84 □ A. EPA □ B.     □ NO MONTH DAY YEAR □ E. LOCAL HEALTH C	EPA CONTRA OFFICIAL [	CTOR X	GA EPD Specif		NTRACTOR	
TR-Martha Pierce CONTRACTOR NAME(S	<u> </u>					
	PERATION 1949	Pres	ont su	ILANOMA.		
X) A. ACTIVE B. INACTIVE C. UNKNOWN	BEGINNING YE	EAR ENDIN	G YEAR	IKNOWN		
O4 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED Upen dumping of solvents containing lon site from 1959 to 1965.	acquer	paint an	d base coat ma	iteria	1s occi	ırred
OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION POTENTIAL for soil contamination exis site at this facility.	sts at t	wo previ	ous open dump	areas	locate	ed on
V. PRIORITY ASSESSMENT						
01 PRIORITY FOR INSPECTION (Check one If high or medium is checked, complete Part 2 · Waste	Information and Pa					
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ (Inspection required)	time available basi	D. NON s) (No fu	NE rither action needed, complete curr	ent disposition	form)	ļ
VI. INFORMATION AVAILABLE FROM						
01 CONTACT 02 OF (Agency Or	ganization)			03	TELEPHONE	NUMBER
Leon Stephenson Georgia	Pacific	Corn -	Savannah	Į (	912 964	1-2230
04 PERSON RESPONSIBLE FOR ASSESSMENT 05 AGENCY		ANIZATION	07 TELEPHONE NUM		DATE	
Jeff Williams mus DNR	FD	D-RAU	404 656-7	7404	05.03	
July Divit		2 1010	1 404 030-7	<u> </u>	MONTH DAY	TEAH

Surousie

**\$EPA** 

# POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

O1 STATE | 02 SITE NUMBER

ACI				EINFORMATION		GA   D990	741332
	TATES, QUANTITIES, AN	ID CHARACTER	ISTICS				
L) A SOLID   D E. SLURRY   MUST DO II   C   C   C   C   C   C   C   C   C		ITY AT SITE of waste quantities independent)	O3 WASTE CHARACTERISTICS (Check all that app.  A. TOXIC B. CORROSIVE C. RADIOACTIVE D. G. FLAMM. D. PERSISTENT ALL H. IGNITAB		LE L] I. HIGHLY VOLATILE IOUS L] J. EXPLOSIVE IABLE L] K. REACTIVE		
ul D. OTHER	(Specify)	l	Unknown			□ M. NOT AF	PLICABLE
II. WASTE T	YPE	<u> </u>		<del></del>			<del></del>
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE						
OLW	OILY WASTE		• •	•			• •
SOL	SOLVENTS		unknown	unknown	Solvents a	ind:mixtures	of lacque
PSD	PESTICIDES				paint and	base coat ma	terials
occ	OTHER ORGANIC CH	1EMICALS			were dumpe	ed on site fr	om 1959 -
IOC	INORGANIC CHEMIC	ALS			1965.:		_ <del></del>
ACD	ACIDS						
BAS	BASES			·			
MES	HEAVY METALS		<u> </u>	<u> </u>			<del></del>
	OUS SUBSTANCES (See A)	<del></del>	<del></del>	r		T	OS MEASURE OF
1 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE/DISF		05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Paint thinner		999	open - du	шр		<del>                                     </del>
	<u> </u>		<del></del>	<del> </del>			<del> </del>
			<del> </del>	<del> </del>	<del></del>		<del> </del>
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						<del></del>	<del> </del>
		<del> </del>	<del> </del>				ļ
			<del>                                     </del>	<del> </del>			<del> </del>
	<del></del>		<del> </del>	·			<del> </del>
			<del> </del>	<del>}</del>		·	<del>                                     </del>
			<del> </del>	<u> </u>	<del></del>		<del> </del>
			<del>                                     </del>	<del> </del>	······································	<del></del>	<del> </del>
V EEEDSTO	OCKS (See Appendix for CAS Number		<u> </u>	L		<u> </u>	<u> </u>
CATEGORY	<del></del>		02 CAS NUMBER	CATEGORY	O1 FEEDSTO	DCK NAME	02 CAS NUMBER
FDS				FDS			
FDS				FDS	·····		
FDS		<del></del>	<del>                                     </del>	FDS			
FDS			<del> </del>	<del></del>			
	S OF INFORMATION ICH.	specific references, e a	, state files, sample analysis.	<del>l</del>			<del></del>
	Telephone Memo	- April	30, 1985 to		ephenson, favannah.	Plant Superir	ntendent,

**\$EPA** 

#### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

1 STATE 02 SITE NUMBER

GA D990741332

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

II HATADOUG COMPITIONS AND INCIDENTS				
II. HAZARDOUS CONDITIONS AND INCIDENTS				
01X3 A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: <u>UNKNOWN</u>	02 C OBSERVED (DATE:04 NARRATIVE DESCRIPTION	)	(X POTENTIAL	□ ALLEGED
Solvent and paint wastes were		and may	have perco	lated into
soil and contaminated the surf	iciai aquiter.			
01 D SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:04 NARRATIVE DESCRIPTION	)	□ POTENTIAL	☐ ALLEGED
01 © C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 (1 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	)	☐ POTENTIAL	(1) ALLEGED
01 [] D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 G OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	}	☐ POTENTIAL	□ ALLEGED
01 ☐ E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 () OBSERVED (DATE:	)	□ POTENTIAL	□ ALLEGED
01 XJ F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Acres)	02 DOBSERVED (DATE:04 NARRATIVE DESCRIPTION	)	X) POTENTIAL	☐ ALLEGED
Two areas on site received sol Wastes were poured directly or		residue	s from 1959	to 1965.
01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 ( ) OBSERVED (DATE:	)	□ POTENTIAL	() ALLEGED
01 L3 H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 ☐ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	}}	□ POTENTIAL	ALLEGED
01 : I POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02   OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	)	C) POTENTIAL	ALLEGED

**ŞEPA** 

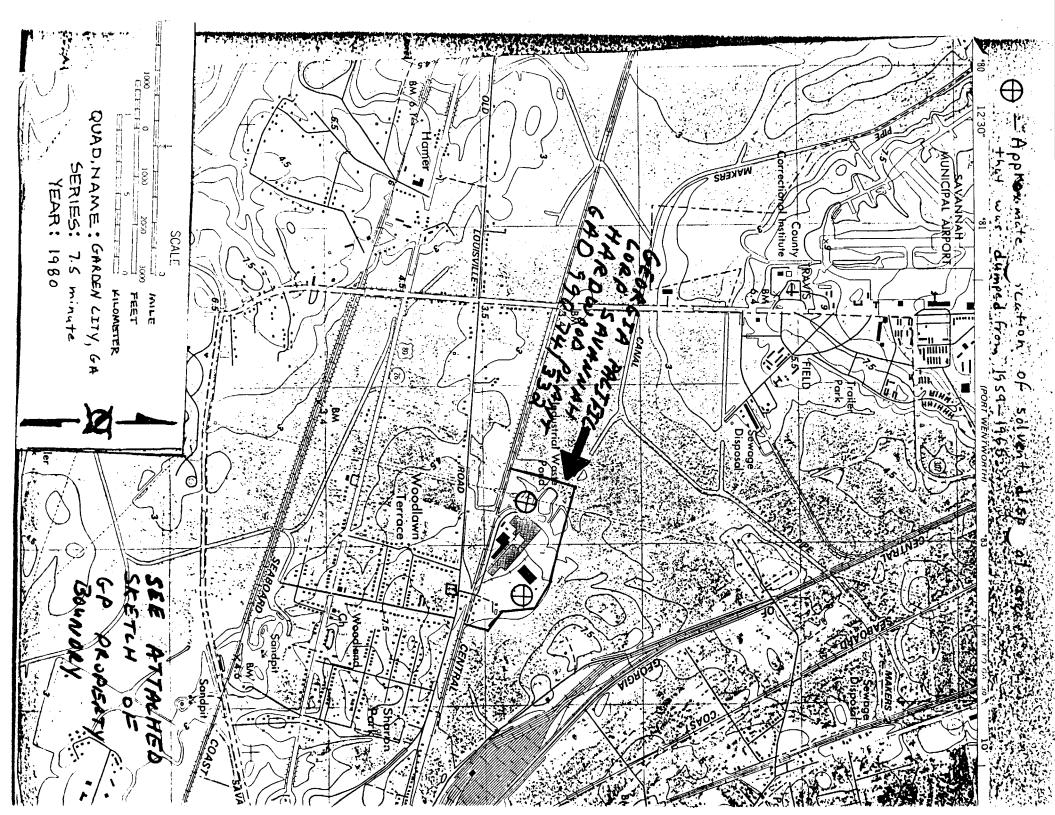
#### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

O1 STATE O2 SITE NUMBER

GA D990741332

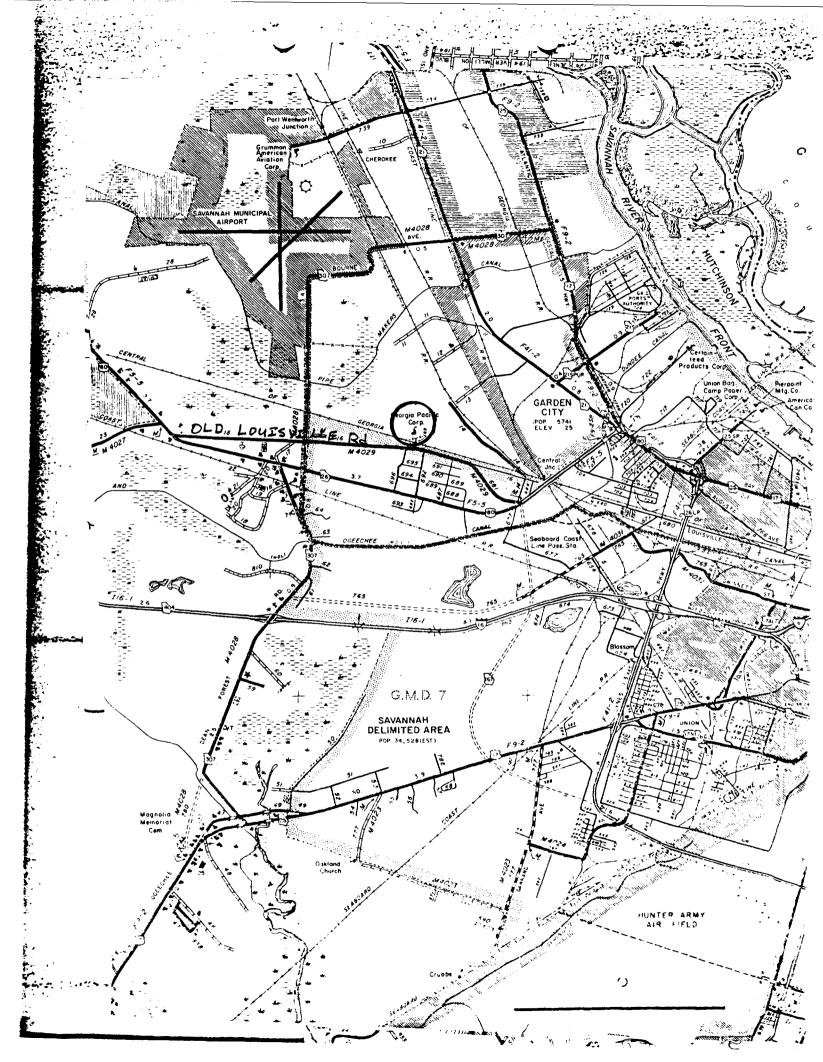
PART 3 - DESCRIPTION OF HAZ	ZARDOUS CONDITIONS AND INC	IDENTS	UA IU	990741332
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)				
01 □ J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 COBSERVED (DATE:	)	□ POTENTIAL	☐ ALLEGED
				•
01 C K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02   OBSERVED (DATE:	)	☐ POTENTIAL	□ ALLEGED
01 □ L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 □ OBSERVED (DATE:	)	☐ POTENTIAL	☐ ALLEGED
01 DM. UNSTABLE CONTAINMENT OF WASTES	02 OBSERVED (DATE:	)	☐ POTENTIAL	☐ ALLEGED
(Spils: runolf: standing houds:rieaking drums) 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	٠		
01 D. N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 [] OBSERVED (DATE:		☐ POTENTIAL	□ ALLEGED
01   O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  O4 NARRATIVE DESCRIPTION	02 TOBSERVED (DATE:	)	□ POTENTIAL	□ ALLEGED
01 (J.P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION -	02 (3 OBSERVED (DATE:	)	. POTENTIAL	□ ALLEGED
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG	GED HAZARDS			
III. TOTAL POPULATION POTENTIALLY AFFECTED:				
IV. COMMENTS				
				-
V. SOURCES OF INFORMATION (Cité specific references, e.g., state files, s	ample analysis, reports)			
Telephone Memo - April 30, 1 Georgia Pacif	985 to Mr. Leon Stephe ic Corporation - Savan	nson,	, Plant Sup	erintendent,



# **POOR LEGIBILITY**

# PORTIONS OF THIS DOCUMENT MAY BE UNREADABLE, DUE TO THE QUALITY OF THE ORIGINAL

- Approximate Locution of solvent disposal area that was dumped from 1959-1965. EPA I.D. NO: GAD990741332 Property Bounday New is woods . Was 3750 probably drums CANAL PlywoodPlant phywood plant. HAZ WASte Not burred in 1981 -Kngt. AREA pupint. (dLosed) Tank removed from service 6-7 years ago, filled, & copped with Probablywas flyachstorings thick container of old boiler (502) which habbeen removed 10 Not comerate. (502) MfG, BLDG: I we is field Was probably drums associated HARDWOOD PLANT ith phywood mit. AREA GAD990741332 (chosen) Dec Drum Strage 6,2001 · Rounday Modrums in area AceA (Sci) RAILROAD



SPECIAL ROUTING TELECON

BY: Williams, J OF: GA. E.P.D. FILE# GAD 990741332

DATE: 4-30-85

INCOMING DI OUTGOING DE

PERSON TALKED WITH: Mr. Leon Stephenson-

OF: Georgia Pucifiz lorp

PHONE # 912-964-2230

SUBJECT: Pre RLRA disposal practices at the Georgia Pucific Corp- Surumnah, GA.

DETAILS OF CONVERSATION

According to Mr. Stephenson, Georgia Pecitic

began operations in 1949, Plywood was produced

from 1949 to 1956. No on site damping

occurred before 1959, Hardwood puncting was

produced from 1957 to the present date, Solvents

and lacquer paint base coat materials were disposed

on site from 1959 to 1965 in tovo

distinct areas according to Mr. Stephenson These

custes were apenly damped onto the soil

and allowed to percolate through All processes

from 1950 to the present dute use water based

materials and use essentially non-hazardous.

# TELECON

BY: Williams J. OF: GA. F.A.D.

DATE: 5-3-85

INCOMING D OUTGOING # GIST

PERSON TALKED MITH: Lurry Rudgers

OF: GA BPD. Brunswick Region

PHONE # 6-13+-365-7284

SUBJECT . DETAILS OF CONVERSATION Community Dinking Water Supplies for residents in barden lify beogra

residential residents that live within I'm miles 4/50 City According to Larry Rodgers of the LA. E.P.D. Several Iscal drinking water wells. The woodlawn terrow C.P. beorgia Puche Failly in Water System. Some points wells located Ruility arec in the in located just south of wood fawa former was. supplied by Swinnah depirt the busten ž



JOE D. TANNER
Commissioner

# Bepartment of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S W
ATLANTA, GEORGIA 30334

TRIP REPORT
April 5, 1984

J. LEONARD LEDBETTER
Division Director

Site Name and Location:

Georgia - Pacific Corp. GAD990741332 Old Louisville Road Savannah, Georgia 31498

Trip By: Martha G. Pierce

Date of Trip: March 28, 1984

Accompanied By: None

Officials Contacted: Tom Stevens, Environmental Engineer

133 Peachtree Street, N.E.

P.O. Box 105605

Atlanta, Georgia 30348

and

Bob Smith, Plant Manager P.O. Box 367 Savannah, Georgia 31498

Reference:

February 14, 1984 letter requesting to withdraw the Part A permit application and to change status to Small Quantity Generator.

#### Comments:

Mr. Stevens and Mr. Smith explained the operation and accompanied me on an inspection of the plant. Georgia-Pacific manufactures interior hardwood paneling for buildings. The process consists of gluing wood sheets together with urea formaldehyde resin, heat, and pressure to form the panels, filling and covering blemishes, cutting the panels to size, and then alternately sanding, priming, drying, staining and sealing the panels. All wood, urea formaldehyde resin, primers, stains, and sealers are purchased off-site. All primers, stains, and sealers are water-based so that all the equipment is cleaned with water. cleaning waste is used in the plant boiler and scrubber. Primers, stains, and sealers are filtered for reuse. The solids trapped on the filters are stored in open metal hoppers along each production line until used as fuel for the boiler along with wood scraps and sawdust. A composite sample of the solids was collected from the hopper over a two week period and was analyzed. (See attachment.) No hazardous waste is generated in this process. Mr. Smith and Mr. Stevens also said that the amount of waste generated is well below the Small Quantity Generator limit.

Page Two (2) TR-Georgia Pacific April 5, 1984

The Part A application filed for this facility listed DOO1, FOO1, and D000 (other wastes). At that time (November 14, 1980), the plant used oil-based primers, stains, and sealers and solvents to clean the equipment. Over a three to four year period, the plant changed from oil-based to the present all water-based process so that no D001, F001, or D000 is now generated. The facility drawing of the Part A showed the following hazardous waste management areas: two SO₂ (tank), one SO₁(drum), and two "closed" areas. Mr. Smith and Mr. Stevens showed The two "closed" areas are now fields and woods. me these areas. Smith said, to his knowledge, that these two areas were not associated with the Hardwood Plant but were probably associated with the Plywood Plant that burned in 1981 and was never re-opened. Mr. Smith thinks that one of the tank storage areas was probably listed for the fly ash container for the old boiler which has been removed. The other tank was removed from service six to seven years ago, filled with dirt, and capped with concrete. No drums were stored in the area designated for SO1 because no hazardous waste is generated.

#### Conclusions:

The Georgia-Pacific Savannah Plant does not generate hazardous waste and does not require a TSD permit.

Recommendations and Follow-Up Required:

Approve withdrawal of the Part A and change status to Small Quantity Generator as requested by Georgia-Pacific in February 14, 1984 letter.

Photographs: None

Samples: None

Reviewed By: WW

Attachments: Waste Analysis

Prefinish Material

See ISS Inspection Checklist

MP:djb:34

File: Georgia-Pacific - Savannah (R)

#### PREFINISH MATERIALS

PRINT LINE I	
631-Y5-331	YELLOW BASECOAT
631-W5-328	WHITE BASECOAT
631-R5-332	RED BASECOAT
631-B5-333	BLACK BASECOAT
601-D5-073	FILLER
640-B5-188	BLACK FLOOD COAT
681-C5-083	H20 TOPCOAT
699-C5-1026	CLEAR INK
699-D5-1027	AMBER INK TINT
699-R5-1030	RED TINT
699-Y5-1028	YELLOW TINT
699-B5-1029	BLACK TINT
934-B5-468	BLACK EMBOSS INK
LINE II HARDWOOD	
621-C5-013 ·	CLEAR SPRAY BRUSH
526-D5-024	BROWN H20 STAIN
626-Y5-025	YELLOW H20 STAIN
626-85-016	BLACK H20 STAIN
63-R5-002	RED STAIN CONC.
63-Y5-005	YELLOW STAIN CONC.
63-B5-006	BLACK STAIN CONC.
699-C5-1026	CLEAR
699-D5-1027	AMBER
699-Y5-1028	YELLOW
699-B5-1029	BLACK
699-R5-1030	RED
681-C5-083	H20 TOPCOAT
50-P55-1691	CATALYST

# SHUANNAH LABORATOPES

## AND EXTRONMENTAL SERVICES, INC.

P.O. Box 13842 - Savannah, Ga. 31406

912/354-7858



#### REPLAT OF ANALYSIS

TO: Georgia-Pacific Corporation

Attn: Bob Smith P. O. Box 367

Savannah, GA 31402 REPORT NO. 6487

DATE RECEIVED 03/31/84

SAMPLED BY client

INDENTIFICATION:

James W. Andrews, Ph. D.

Jacque M. Davis

( had Chemin 1 P

Pref lime I & II waste

METHODS:

"Test Methods for the Evaluation of Solid Waste,

Physical/Chemical Methods SW-846-U.S. EPA.

	CHAR	ACTERISTICS OF HAZARDOUS WASTE	(RCRA)
EPA No.	Parameter	•	Results
D001	Ignitability		>140°F
D002	Corrosivity	,	pH = 7.9
<b>D</b> 003	(SW846, EPA Me	t (ppm dry weight)	<pre></pre>
	EP Toxicity: % that passes % solids initial pH/fir ml of conc. ac		100. 12. 5.0/5.0 5.4
EPA No.	Contaminant	Maximum Permissible Concentration (mg/l)	Level in Extract (mg/l)
D004 D005 D006 D007 D008 D009 D010 D011	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	5.0 100.0 1.0 5.0 5.0 0.2 1.0 5.0	

*Due to the color of this sample we were unable to determine a quantitative measure for hydrogen sulfide. A qualitative analysis utilizing lead acetate paper, of this sample indicated no hydrogen sulfide was released upon acidification.

Janette M. Davis

#### DEPARTMENT OF NATURAL RESOL ES

#### ENVIRONMENTAL PROTECTION DIVISION

#### WASTE MANAGEMENT DATA SHEET

## GAD990741332 Savannah Savannah - Chatham

NAME AND LOCATION OF FACILITY  GEORGIA-PACIFIC CORPORATION - SAVANNAH HARDWOOD PLYWOOD PLANT
OLD LOUISVILLE ROAD
SAVANNAH, GEORGIA 31498
PERSON TO CONTACT  (ENTER THE NAME, ADDRESS, TITLE AND BUSINESS TELEPHONE NUMBER OF THE PERSON TO CONTACT REGARDING INFORMATION SUBMITTED ON THIS FORM).  TOM B. STEVENS - ENVIRONMENTAL ENGINEER P. O. BOX 105603  ATLANTA, GEORGIA 30348  404-521-5080  DATES OF WASTE HANDLING
(ENTER THE YEARS THAT YOU ESTIMATE WASTE TREATMENT, STORAGE OR DISPOSAL BEGAN AND ENDED AT THE SITE. IF YOU SELECTED A FACILITY OFF-SITE PLEASE NOTE AND EXPLAIN IN "COMMENTS" SECTION.
PLANT START-UP DATE 1949
GENERAL TYPE OF WASTE
1- () ORGANICS 2- () INORGÁNICS 3- () SOLVENTS 4- () PESTICIDES 5- () HEAVY METALS 6- () ACIDS 7- () BASES 8- () PCB's 9- () MIXED MUNICIPAL WASTE 10- () UNKNOWN 11- () OTHER (SPECIFY) NO HAZARDOUS WASTE GENERATED
WASTE QUANTITY (ESTIMATED)
HAS THERE EVER BEEN A SPILL OR DISCHARGE OF A HAZARDOUS SUBSTANCE FROM YOUR FACILITY? (BRIEFLY EXPLAIN THE NATURE OF THE RELEASE).  NO

## COMMENTS

(IF THERE IS ANY COMMENTS THAT YOU BELING HANDLING PRACTICES OF YOUR FACILITY OR HANDLE YOUR WASTE, PLEASE ELABORATE IN NO	OF FACILITIES YOU SELI	
SIGNATURE AND TITLE	TOM B. STEVENS	404-521-5080 TELEPHONE
	133 PEACHTREE ST. N.	E 16th Floor
	STREET	
and the second s	ATLANTA, GEORGIA	30303
	CITY STATE	ZIP CODE
	Jon B. Stevens	3-22-65
	SIGNATURE	DATE